

# MONTANA

## BARLEY VARIETIES

# 1999

Reissued: August 4, 1999



MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

301 South Park, Drawer 10033  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-ml@nass.usda.gov](mailto:nass-ml@nass.usda.gov)

MONTANA STATE LIBRARY

3 0864 0016 2701 0

### MALTING VARIETIES

**Harrington** remained the top variety planted in the state. It was seeded on over 624 thousand acres or 50 percent of Montana barley acreage. Harrington is the most popular variety of barley recommended by the American Malting Barley Association (AMBA) for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**B 1202** maintained the second place position for the fifth consecutive year with over 65 thousand acres, or 5.2 percent of the barley planted. It is a two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled. The aleurone is colorless.

**Morex** moved up to rank third among AMBA approved malting barley varieties with a slight increase in seeded acreage to about 21 thousand acres, or 1.7 percent of the seeded acres. Morex was developed by the Minnesota Agricultural Experiment Station and released in 1978. Morex is a six-rowed, smooth awned variety. The spike is semi-erect and medium length. Under some Montana agronomic conditions, the straw of Morex tends to break off prior to maturity, and kernel shattering and rachis breaking occurs. Therefore, Morex probably should be swathed prior to harvest. It is resistant to stem rust and loose smut, and moderately resistant to spot blotch.

**Chinook** moved down to fourth place among AMBA approved malting barley varieties, dropping almost 10 thousand acres from a year ago to 15.5 thousand acres. Developed by the Montana Agricultural Experiment Station in 1995, Chinook is a two-rowed spring barley. It has plump kernels with a white aleurone, mid-sized, with finely wrinkled adhering hull. The kernel rachilla hairs are long. The spike is smooth awned, mid-lax, mid-long, and nodding at maturity.

### FEED VARIETIES

**Baronesse** remained the leading feed barley for the fourth consecutive year and the number two variety overall. Over 94 thousand acres of Baronesse were planted this year, down significantly from the 163 thousand acres seeded in 1998. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging.

**Hector** also maintained its position as second most popular feed barley despite a reduction in seeded acreage for the past two years. In 1999, nearly 61 thousand acres of Hector were planted. Hector has a rough awn, a yellow aleurone, and kernels with basal marking, and a horseshoe depression tending to crease. The rachilla is mid-long in length with long hairs. The kernel is mid-sized to small. It has been recommended as a dryland feed barley by the Montana Agricultural Experiment Station.

**Haybet** moved into the third place position with over 54 thousand acres seeded or 4.3 percent of the barley acreage. Haybet was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled, spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Gallatin** moved down to fourth place in 1999. It accounts for over 4 percent of total seeded acreage with almost 51 thousand acres of the variety planted in the state. It is developed by the Agricultural Research Service, USDA, and the Montana Agricultural Experiment Station. Gallatin is a two-rowed, rough awned, spring barley. The kernels are mid-sized, with short rachilla hairs, the hull is adhered, finely wrinkled with no barbs on the lateral veins. Gallatin is well adapted on dryland and irrigated land in the Pacific Northwest and the Northern Great Plains. This variety has good lodging resistance and high test weights and yield potential under most conditions.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University.

**Barley: 1999 Seeded Acreage and Percent of Total Seeded by Districts**

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	3.8	11.1	475.9	70.5	10.3	9.2	107.9	43.0	19.6	37.0	6.8	8.0	--	--	624.3	49.9
Baronesse	8.1	23.7	29.7	4.4	7.8	7.0	29.1	11.6	7.3	13.8	8.8	10.3	3.6	9.1	94.4	7.6
B 1202 *	--	--	45.9	6.8	1.0	0.9	8.0	3.2	2.4	4.5	7.9	9.3	--	--	65.2	5.2
Hector	--	--	9.5	1.4	17.8	15.9	21.1	8.4	0.2	0.3	9.5	11.2	2.8	7.0	60.9	4.9
Haybet	3.9	11.5	10.1	1.5	23.0	20.5	4.5	1.8	0.2	0.3	2.8	3.3	9.8	24.4	54.3	4.3
Gallatin	5.2	15.3	7.4	1.1	2.1	1.9	16.8	6.7	4.2	8.0	12.8	15.0	2.1	5.2	50.6	4.0
Bowman	--	--	4.1	0.6	12.1	10.8	3.3	1.3	--	--	6.3	7.4	7.0	17.5	32.8	2.6
Lewis	0.8	2.4	12.2	1.8	6.6	5.9	6.8	2.7	--	--	--	--	1.6	4.0	28.0	2.2
Stark	--	--	--	--	9.4	8.4	9.8	3.9	--	--	1.6	1.9	2.2	5.6	23.0	1.8
Pioline	--	--	9.5	1.4	2.7	2.4	8.0	3.2	1.4	2.6	0.2	0.2	1.0	2.4	22.8	1.8
Morex *	--	--	14.2	2.1	0.6	0.5	--	--	6.1	11.5	--	--	--	--	20.9	1.7
Horsford	1.1	3.2	1.4	0.2	2.7	2.4	9.8	3.9	0.5	1.0	2.0	2.4	3.0	7.6	20.5	1.6
Moravian 22	--	--	3.0	0.4	--	--	--	--	--	--	14.0	16.5	--	--	17.0	1.4
Galena	--	--	14.2	2.1	--	--	0.5	0.2	--	--	0.9	1.0	--	--	15.6	1.2
Chinook *	--	--	5.4	0.8	1.5	1.3	8.5	3.4	--	--	0.1	0.1	--	--	15.5	1.2
B Merit	--	--	10.1	1.5	--	--	2.5	1.0	2.5	4.7	--	--	--	--	15.1	1.2
B 2601 *	--	--	8.1	1.2	--	--	1.8	0.7	--	--	2.4	2.8	--	--	12.3	1.0
Menuet	9.1	26.7	--	--	0.4	0.4	--	--	--	--	--	--	--	--	9.5	0.8
Clark	--	--	0.7	0.1	0.7	0.6	0.8	0.3	1.2	2.2	4.7	5.5	--	--	8.1	0.6
Logan	0.1	0.4	1.4	0.2	1.0	0.9	0.3	0.1	--	--	--	--	0.4	1.0	3.2	0.3
Moravian III	--	--	--	--	--	--	--	--	--	--	0.9	1.0	--	--	0.9	0.1
Other & Unknown	1.9	5.7	12.2	1.9	12.3	11.0	11.5	4.6	7.4	14.1	3.3	4.1	6.5	16.2	55.1	4.6
All Varieties	34.0	100.0	675.0	100.0	112.0	100.0	251.0	100.0	53.0	100.0	85.0	100.0	40.0	100.0	1250.0	100.0

**Barley: 1998 Seeded Acreage and Percent of Total Seeded by Districts - Revised**

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	0.6	1.7	431.4	61.9	6.4	5.3	111.1	36.9	15.4	22.6	3.5	4.1	--	--	568.4	42.1
Baronesse	9.0	27.2	70.4	10.1	4.5	3.7	63.2	21.0	10.1	14.8	4.1	4.8	1.4	3.1	162.7	12.1
Hector	0.3	0.9	21.6	3.1	33.9	28.0	22.0	7.3	1.5	2.2	8.1	9.4	4.8	10.9	92.2	6.8
B 1202 *	--	--	50.2	7.2	--	--	4.5	1.5	0.4	0.6	8.3	9.7	--	--	63.4	4.7
Gallatin	2.9	8.8	10.5	1.5	1.0	0.8	21.1	7.0	3.6	5.3	17.9	20.8	5.6	12.8	62.6	4.6
Bowman	--	--	6.3	0.9	12.3	10.2	6.0	2.0	--	--	10.8	12.5	6.4	14.5	41.8	3.1
Haybet	2.5	7.6	4.2	0.6	11.7	9.7	4.5	1.5	1.6	2.3	2.4	2.8	13.6	30.9	40.5	3.0
Galena	--	--	28.6	4.1	--	--	--	--	0.5	0.7	6.6	7.7	--	--	35.7	2.6
Pioline	--	--	11.8	1.7	--	--	12.6	4.2	3.9	5.7	--	--	1.0	2.2	29.3	2.2
Horsford	1.5	4.6	4.9	0.7	6.2	5.1	6.9	2.3	1.4	2.1	6.7	7.8	0.9	2.1	28.5	2.1
Lewis	--	--	13.9	2.0	8.5	7.0	1.2	0.4	1.0	1.4	0.3	0.4	2.9	6.7	27.8	2.1
Chinook *	1.0	3.0	7.0	1.0	1.9	1.6	11.4	3.8	--	--	3.1	3.6	--	--	24.4	1.8
Morex *	--	--	4.2	0.6	--	--	5.4	1.8	9.8	14.4	--	--	0.8	1.8	20.2	1.5
Clark	0.1	0.2	2.8	0.4	1.3	1.1	8.1	2.7	--	--	2.8	3.3	--	--	15.1	1.1
Stark	--	--	--	--	11.6	9.6	--	--	--	--	--	--	0.4	0.9	12.0	0.9
Menuet	11.3	34.2	--	--	0.2	0.2	--	--	--	--	--	--	--	--	11.5	0.9
B 2601*	--	--	11.2	1.6	--	--	--	--	--	--	--	--	--	--	11.2	0.8
Nebula	--	--	--	--	--	0.3	0.1	3.4	5.0	0.1	0.1	--	--	--	3.8	0.3
B Merit	--	--	3.5	0.5	--	--	--	--	--	--	--	--	--	--	3.5	0.3
Moravian III	--	--	--	--	--	--	--	--	--	--	3.5	4.1	--	--	3.5	0.3
Unitan	--	--	--	--	--	--	0.6	0.2	0.3	0.4	--	--	2.6	5.8	3.5	0.3
Klaces	--	--	0.7	0.1	1.8	1.5	--	--	--	--	--	--	--	--	2.5	0.2
Excel *	--	--	--	--	1.9	1.6	--	--	--	--	--	--	--	--	1.9	0.1
Larker	--	--	--	--	--	--	1.2	0.4	--	--	--	--	--	--	1.2	0.1
Other & Unknown	3.8	11.8	13.8	2.0	17.8	14.6	20.9	6.9	15.1	22.5	7.8	8.9	3.6	8.3	82.8	6.0
All Varieties	33.0	100.0	697.0	100.0	121.0	100.0	301.0	100.0	68.0	100.0	86.0	100.0	44.0	100.0	1350.0	100.0

**Barley: Percent of Total Seeded Acreage 1993-1999 & Seeded Acreage 1998-1999**

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1993	1994	1995	1996	1997	1998 <sup>1</sup>	1999	1998 <sup>1</sup>	1999
Harrington *	22.0	28.0	24.9	32.6	33.4	42.1	49.9	568.4	624.3
Baronesse	1.5	7.2	11.9	12.2	15.6	12.1	7.6	162.7	94.4
B 1202 *	5.7	3.7	6.1	5.4	5.1	4.7	5.2	63.4	65.2
Hector	22.5	14.7	13.5	10.2	8.8	6.8	4.9	92.2	60.9
Haybet	--	0.7	1.5	1.4	2.1	3.0	4.3	40.5	54.3
Gallatin	8.4	8.8	6.9	5.7	5.8	4.6	4.0	62.6	50.6
Bowman	7.3	5.8	6.9	6.0	4.7	3.1	2.6	41.8	32.8
Lewis	5.1	5.2	2.5	2.4	1.5	2.1	2.2	27.8	28.0
Stark	--	0.7	0.5	0.7	0.8	0.9	1.8	12.0	23.0
Pioline	7.4	5.6	4.3	3.0	3.4	2.2	1.8	29.3	22.8
Morex *	2.4	2.0	0.5	0.7	1.2	1.5	1.7	20.2	20.9
Horsford	1.9	1.3	1.2	2.3	1.7	2.1	1.6	28.5	20.5
Moravian 22	--	--	--	--	--	--	1.4	--	17.0
Galena	--	0.8	0.9	1.2	1.4	2.6	1.2	35.7	15.6
Chinook *	--	--	0.5	0.8	1.8	1.8	1.2	24.4	15.5
B Merit	--	--	--	--	--	0.3	1.2	3.5	15.1
B 2601*	0.6	1.1	1.8	1.3	1.8	0.8	1.0	11.2	12.3
Menuet	0.8	1.5	0.9	1.1	0.7	0.9	0.8	11.5	9.5
Clark	2.1	1.2	1.5	1.6	1.1	1.1	0.6	15.1	8.1
Logan	--	--	--	--	--	--	0.3	--	3.2
Moravian III	1.9	0.8	1.0	1.8	0.9	0.3	0.1	3.5	0.9
Other & Unknown	1								

# Montana Barley Varieties 2000

STATE DOCUMENTS COLLECTION

MONTANA STATE LIBRARY



3 0864 0016 2370 4

MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

301 South Park, Drawer 10033  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-mt@nass.usda.gov](mailto:nass-mt@nass.usda.gov)

MONTANA STATE LIBRARY

3 0864 0016 2702 8

Released: July 14, 2000

MONTANA STATE LIBRARY  
1515 E. 6th AVE.  
HELENA, MONTANA 59620

AUG 09 2000

Montana farmers planted 1.25 million acres of barley in 2000, down 50,000 acres from last year. Nearly 61 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association. The top variety seeded in Montana was Harrington, maintaining its position for the seventh consecutive year.

## MALTING VARIETIES

**Harrington** remained the top variety planted in the state. It was seeded on over 626 thousand acres or 50 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the American Malting Barley Association (AMBA) for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**B 1202** maintained the second place malting variety position for the fifth consecutive year with over 67 thousand acres or 5.4 percent of the barley planted. It is a two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald and stripe rust.

**Morex** moved up to rank third among AMBA approved malting barley varieties with a slight increase in seeded acreage to about 29 thousand or 2.3 percent of the seeded acres. Morex was developed by the Minnesota Agricultural Experiment Station and released in 1978. Morex is a six-rowed, smooth awned variety. The spike is semi-erect and medium length. Under some Montana agronomic conditions, the straw of Morex tends to break off prior to maturity, and kernel shattering and rachis breaking occurs. Therefore, Morex probably should be swathed prior to harvest. It is resistant to stem rust and loose smut, and moderately resistant to spot blotch.

**B Merit** moved into the top four malting varieties in 2000 with 19 thousand acres planted. B Merit is a two-rowed, mid-maturing, mid-dense head, adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University.

## FEED VARIETIES

**Haybet** moved into the leading position for feed barley with almost 81 thousand acres planted this year, which accounted for 6.4 percent of the total barley acres seeded in Montana for 2000. This is nearly 23 thousand more acres than the 58 thousand acres planted in 1999. Haybet was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded white-kernelled, spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Baronesse** dropped into second as the most popular feed barley. It captured 6.2 percent of the total acreage or 78 thousand acres for feed barley seeded in Montana for 2000. This is compared to the 98,200 acres planted last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Hector** fell from second to third place in feed barley this year. In 2000, nearly 46 thousand acres were seeded or 3.7 percent of the barley acreage state-wide. This is compared to the 64 thousand acres planted in 1999. Hector has a rough awn, a yellow aleurone, and kernels with basal marking, and a horseshoe depression tending to crease. The rachilla is mid-long in length with long hairs. The kernel is mid-sized to small. It has been recommended as a dryland feed barley by the Montana Agricultural Experiment Station.

**Bowman** jumped from fifth position last year to its 2000 position as the fourth leading feed-type variety with over 34 thousand or 2.7 percent state-wide of the barley acres seeded in 2000. This is compared to the 35,500 acres planted in 1999, which also accounted for 2.7 percent of the total barley acres planted last year. Bowman is an early maturing variety with high test weight, moderately high grain protein levels, medium straw strength and good yield. This two-rowed grain is smooth awned and has good resistance to lodging, moderately susceptible to spot blight and net blotch.

Variety	Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2000																
	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total		
(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%		
Harrington *	1.1	4.2	444.7	65.4	12.9	11.2	119.1	48.6	26.4	48.0	18.6	22.7	3.1	6.5	625.9	50.1	
Haybet	3.0	11.7	20.4	3.0	26.8	3.0	9.1	3.8	1.9	3.4	3.6	4.4	15.6	33.1	80.6	6.4	
Baronesse	5.7	22.0	20.4	5.0	7.7	5.0	9.1	29.4	2.0	5.2	9.5	5.7	6.9	4.8	10.2	77.9	6.2
B 1202 *	0.0	0.0	49.6	7.3	0.2	0.2	4.7	1.9	0.0	0.0	12.5	15.2	0.1	0.3	67.1	5.4	
Hector	0.2	0.7	6.1	0.9	14.5	1.2	19.6	8.0	0.6	1.0	1.2	1.5	3.7	7.8	45.9	3.7	
Bowman	0.0	0.0	14.3	2.1	0.0	8.6	0.7	0.3	0.0	0.0	3.1	3.8	6.3	13.3	34.3	2.7	
Horsford	1.8	6.8	4.1	0.6	7.2	6.3	8.6	3.5	2.0	3.7	2.5	3.1	3.5	7.4	29.7	2.4	
Morex *	0.0	0.0	21.1	3.1	0.5	0.4	3.2	1.3	3.9	7.1	0.3	0.4	0.0	0.0	29.0	2.3	
Gallatin	2.6	10.1	6.1	0.9	1.1	3.0	8.3	3.4	2.5	4.5	1.6	1.9	2.3	4.9	27.5	2.2	
B Merit *	0.7	2.7	15.6	2.3	0.0	0.0	2.2	0.9	1.5	2.7	0.1	0.1	0.0	0.0	20.1	1.6	
Moravian 37	1.2	4.5	12.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	4.8	5.8	0.0	0.0	18.9	1.5	
Lewis	0.3	1.2	4.8	0.7	5.6	4.9	7.4	3.0	0.7	1.3	0.0	0.0	0.0	0.0	18.8	1.5	
Moravian 22	0.0	0.0	0.7	0.1	0.3	0.3	0.0	0.0	0.8	1.4	15.2	18.5	0.0	0.0	17.0	1.4	
Westford	1.6	6.3	1.4	0.2	1.8	1.6	4.9	2.0	2.2	4.0	2.1	2.6	1.4	3.0	15.4	1.2	
Pioline	0.0	0.0	4.8	0.7	0.8	0.7	5.6	2.3	0.7	1.2	1.5	1.8	0.0	0.0	13.4	1.1	
Galena	0.0	0.0	11.6	1.7	0.5	0.4	0.7	0.3	0.0	0.0	0.2	0.3	0.0	0.0	13.0	1.0	
B 2601 *	0.0	0.0	10.9	1.6	0.0	0.0	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	12.9	1.0	
Chinook *	0.0	0.0	5.4	0.8	1.2	1.0	5.1	2.1	0.0	0.0	0.2	0.3	0.0	0.0	11.9	1.0	
Stark	0.0	0.0	0.0	0.0	9.9	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	10.2	0.8	
Menuet	7.2	27.5	2.0	0.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.8	
Westbred Medallion	0.0	0.0	0.0	0.0	0.0	0.0	6.9	2.8	1.9	3.4	0.3	0.4	0.0	0.0	9.1	0.7	
Other & Unknown	0.6	2.3	23.1	3.4	11.6	10.1	7.3	3.0	4.7	8.8	8.5	10.3	5.9	12.8	61.7	5.0	
ALL VARIETIES	26.0	100.0	680.0	100.0	115.0	100.0	245.0	100.0	55.0	100.0	82.0	100.0	47.0	100.0	1,250.0	100.0	

\* American Malting Barley Association, Inc recommended for malting and brewing for Montana.

Variety	Barley: 1999 Seeded Acreage and Percent of Total Seeded by Districts, Revised															
	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	
Harrington *	3.1	11.1	486.5	70.5	10.9	9.2	114.4	43.0	23.3	37.0	6.7	8.0	0.0	0.0	644.9	49.6
Baronesse	6.6	23.7	30.4	4.4	8.3	7.0	30.9	11.6	8.7	13.8	8.7	10.3	4.6	9.1	98.2	7.6
B 1202 *	0.0	0.0	46.9	6.8	1.1	0.9	8.5	3.2	2.8	4.5	8.0	9.3	0.0	0.0	67.3	5.2
Hector	0.0	0.0	9.7	1.4	18.9	15.9	22.3	8.4	0.2	0.3	9.4	11.2	3.5	7.0	64.0	4.9
Haybet	3.2	11.5	10.4	1.5	24.4	20.5	4.8	1.8	0.2	0.3	2.8	3.3	12.2	24.4	58.0	4.5
Gallatin	4.3	15.3	7.6	1.1	2.3	1.9	17.8	6.7	5.0	8.0	12.6	15.0	2.6	5.2	52.2	4.0
Bowman	0.0	0.0	4.1	0.6	12.9	10.8	3.5	1.3	0.0	0.0	6.2	7.4	8.8	17.5	35.5	2.7
Lewis	0.7	2.4	12.4	1.8	7.0	5.9	7.2	2.7	0.0	0.0	0.0	0.0	2.0	4.0	29.3	2.3
Stark	0.0	0.0	0.0	0.0	10.0	8.4	10.4	3.9	0.0	0.0	1.6	1.9	2.8	5.6	24.8	1.9
Pioline	0.0	0.0	9.7	1.4	2.9	2.4	8.5	3.2	1.6	2.6	0.2	0.2	1.2	2.4	24.1	1.9
Morex *	0.0	0.0	14.5	2.1	0.6	0.5	0.0	0.0	7.2	11.5	0.0	0.0	0.0	0.0	22.3	1.7
Horsford	0.9	3.2	1.4	0.2	2.9	2.4	10.4	3.9	0.6	1.0	2.0	2.4	3.8	7.6	22.0	1.7
Moravian 22	0.0	0.0	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	14.1	16.5	0.0	0.0	17.1	1.3
B Merit *	0.0	0.0	10.4	1.5	0.0	0.0	2.7	1.0	3.0	4.7	0.0	0.0	0.0	0.0	16.1	1.2
Chinook *	0.0	0.0	5.5	0.8	1.5	1.3	9.0	3.4	0.0	0.0	0.1	0.1	0.0	0.0	16.1	1.2
Galena	0.0	0.0	14.5	2.1	0.0	0.0	0.5	0.2	0.0	0.0	0.8	1.0	0.0	0.0	15.8	1.2
B 2601 *	0.0	0.0	8.4	1.2	0.0	0.0	1.9	0.7	0.0	0.0	2.5	2.8	0.0	0.0	12.8	1.0
Clark	0.0	0.0	0.7	0.1	0.7	0.6	0.8	0.3	1.4	2.2	4.6	5.5	0.0	0.0	8.2	0.6
Menuet	7.5	26.7	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.6
Logan	0.1	0.4	1.4	0.2	1.1	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.5	1.0	3.4	0.3
Westbred Medallion	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	2.5	3.9	0.0	0.0	0.0	0.0	3.0	0.2
Other & Unknown	1.6	5.7	12.5	1.9	13.0	11.0	11.6	4.4	6.5	10.2	3.7	5.1	8.0	16.2	56.9	4.4
ALL VARIETIES	28.0	100.0	690.0	100.0	119.0	100.0	266.0	100.0	63.0	100.0	84.0	100.0	50.0	100.0	1,300.0	100.0

\* American Malting Barley Association, Inc recommended for malting and brewing for Montana.

Variety	Percent of Total Seeded Acreage 1994-2000 & Seeded Acreage 1999-2000								Seeded Acres (000)		
	1994	1995	1996	1997	1998	1999 1/	2000	1999 1/	2000	1999 1/	2000
Harrington *	28.0	24.9	32.6	33.4	42.1	49.6	50.1	644.9	625.9		
Haybet	0.7	1.5	1.4	2.1	3.0	4.5	6.4	58.0	80.6		
Baronesse	7.2	11.9	12.2	15.6	12.1	7.6	6.2	98.2	77.9		
B 1202 *	3.7	6.1	5.4	5.1	4.7	5.2	5.4	67.3	67.1		
Hector	14.7	13.5	10.2	8.8	6.8	4.9	3.7	64.0	45.9		
Bowman	5.8	6.9	6.0	4.7	3.1	2.7	2.7	35.5	34.3		
Horsford	1.3	1.2	2.3	1.7	2.1	1.7	2.4	22.0	29.7		
Morex *	2.0	0.5	0.7	1.2	1.5	1.7	2.3	22.3	29.0		
Gallatin	8.8	6.9	5.7	5.8	4.6	4.0	2.2	52.2	27.5		
B Merit *	--	--	--	--	0.3	1.2	1.6	16.1	20.1		
Moravian 37	--	--	--	--	--	0.1	1.5	1.3	18.9		
Lewis	5.2	2.5	2.4	1.5	2						

Released: July 17, 2001

MONTANA STATE LIBRARY  
1515 E. 6th AVE.  
HELENA, MONTANA 59620

Montana farmers planted 1.1 million acres of barley in 2001, down 150,000 acres from last year. Nearly 49 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eighth consecutive year.

#### MALTING VARIETIES

**Harrington** remained the top variety planted in the state for the eighth year in a row. It was seeded on over 500 thousand acres or 45.5 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the American Malting Barley Association (AMBA) for planting in Montana. It is a two-rowed malting barley developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**B 1202** maintained the second place malting variety position for the sixth consecutive year with 60 thousand acres or 5.5 percent of the barley planted. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

**Moravian 37** moved up to rank third among malting barley varieties with a significant increase in seeded acreage to 40.7 thousand, or 3.7 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

**B Merit** rounds out the top four malting varieties again in 2001, with 12.4 thousand acres seeded statewide. B Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2001 for use in Montana.

#### FEED VARIETIES

**Haybet** remained in the lead position for feed barley for the second year in a row, with almost 113 thousand acres planted this year, which accounted for 10.2 percent of the total barley acres seeded in Montana for 2001. This is 31.1 thousand more acres than the 81.5 thousand acres planted in 2000. Haybet was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Baronesse** remains the second most popular feed barley in 2001. It represents 5.2 percent of the total acreage or 57.6 thousand acres for feed barley seeded in Montana for 2001. This is compared to the 77.0 thousand acres planted last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Gallatin** became the third place choice for feed barley this year with 34.2 thousand acres seeded or 3.1 percent of the barley acreage state-wide. This is compared to the 27.4 thousand acres planted in 2000. Gallatin is a white-kerneled, rough-awned feed variety released by the USDA-ARS and the Montana and Idaho agricultural experiment stations in 1986. Gallatin has mid-lax, mid-long spikes that, like Hector's, are semi-nodding before maturity and nodding at maturity.

**Westford** is the fourth leading feed-type variety this year with over 30 thousand acres or 2.8 percent of the state-wide barley acres seeded in 2001. This is compared to the 15,400 acres planted in 2000, which accounted for 1.2 percent of the total barley acres planted last year. Western Plant Breeders released Westford in 1988. It is a six-row hooded forage variety with standard height, stiff straw, late maturity, medium test weight, and good yield potential under intermediate to high rainfall. It is moderately tolerant to leaf rust, powdery mildew, barley yellow-dwarf, and leaf blight. Westford is susceptible to stem rust.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

**Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2001**

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.8	6.1	362.2	64.1	17.4	12.4	81.3	42.8	20.1	40.2	14.7	18.4	2.7	6.0	500.2	45.5
Haybet	4.9	16.4	21.5	3.8	42.4	30.3	13.9	7.3	1.8	3.6	8.6	10.7	19.5	43.3	112.6	10.2
B 1202 *	0.0	0.0	35.6	6.3	0.3	0.2	13.7	7.2	0.0	0.0	10.4	13.0	0.0	0.0	60.0	5.5
Baronesse	9.0	30.1	17.5	3.1	7.0	5.0	10.5	5.5	8.6	17.2	4.6	5.7	0.4	0.9	57.6	5.2
Moravian 37	0.0	0.0	22.6	4.0	1.8	1.3	0.0	0.0	0.0	0.0	16.3	20.4	0.0	0.0	40.7	3.7
Gallatin	1.7	5.7	1.1	0.2	2.4	1.7	13.5	7.1	5.0	10.0	7.9	9.9	2.6	5.7	34.2	3.1
Westford	3.7	12.2	2.3	0.4	4.3	3.1	8.6	4.5	8.4	16.8	2.6	3.2	0.4	0.9	30.3	2.8
Hector	0.0	0.0	1.1	0.2	8.8	6.3	13.1	6.9	0.2	0.4	1.4	1.8	4.4	9.7	29.0	2.6
Bowman	0.0	0.0	12.4	2.2	6.6	4.7	0.2	0.1	0.0	0.0	3.4	4.3	1.4	3.2	24.0	2.2
Lewis	0.8	2.5	4.0	0.7	5.5	3.9	3.0	1.6	1.1	2.2	0.0	0.0	2.1	4.7	16.5	1.5
Horsford	0.7	2.2	1.7	0.3	2.9	2.1	5.5	2.9	0.0	0.0	1.8	2.2	1.3	2.8	13.9	1.3
Pioline	0.0	0.0	6.8	1.2	0.6	0.4	3.6	1.9	0.0	0.0	1.0	1.2	0.5	1.2	12.5	1.1
B Merit *	0.0	0.0	8.5	1.5	0.0	0.0	2.1	1.1	0.8	1.6	1.0	1.2	0.0	0.0	12.4	1.1
Dolly	0.0	0.0	9.6	1.7	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	1.0
Garnet	0.0	0.0	10.2	1.8	0.0	0.0	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0	11.0	1.0
Stark	0.0	0.0	0.0	0.0	7.8	5.6	0.0	0.0	0.0	0.0	0.3	0.4	1.3	2.8	9.4	0.9
B 2601 *	0.0	0.0	8.5	1.5	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.8
Foster *	0.0	0.0	9.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.8
Robust	0.0	0.0	0.0	0.0	8.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.8
Valier	0.2	0.8	1.1	0.2	2.9	2.1	1.9	1.0	0.0	0.0	0.3	0.4	0.0	0.1	6.4	0.6
Menuet	4.9	16.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	6.3	0.6
Other & Unknown	2.3	7.7	28.2	5.0	21.0	15.0	16.6	8.8	3.2	6.4	5.4	6.8	8.4	18.7	85.1	7.7
ALL VARIETIES	30.0	100.0	565.0	100.0	140.0	100.0	190.0	100.0	50.0	100.0	80.0	100.0	45.0	100.0	1,100.0	100.0

\* American Malting Barley Association, Inc. recommended for malting and brewing for Montana.

**Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2000 Revised**

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.1	4.2	445.4	65.4	14.0	11.2	114.2	48.6	26.9	48.0	19.1	22.7	2.9	6.5	623.6	49.9
Haybet	2.9	11.7	20.4	3.0	29.1	23.3	8.9	3.8	1.9	3.4	3.7	4.4	14.6	33.1	81.5	6.5
Baronesse	5.5	22.0	20.4	3.0	7.3	5.8	28.2	12.0	5.3	9.5	5.8	6.9	4.5	10.2	77.0	6.2
B 1202 *	0.0	0.0	49.7	7.3	0.3	0.2	4.5	1.9	0.0	0.0	12.8	15.2	0.1	0.3	67.4	5.4
Hector	0.2	0.7	6.1	0.9	15.8	12.6	18.8	8.0	0.6	1.0	1.3	1.5	3.4	7.8	46.2	3.7
Bowman	0.0	0.0	14.3	2.1	10.8	8.6	0.7	0.3	0.0	0.0	3.2	3.8	5.9	13.3	34.9	2.8
Horsford	1.7	6.8	4.1	0.6	7.9	6.3	8.2	3.5	2.1	3.7	2.6	3.1	3.3	7.4	29.9	2.4
Morex *	0.0	0.0	21.1	3.1	0.5	0.4	3.1	1.3	4.0	7.1	0.3	0.4	0.0	0.0	29.0	2.3
Gallatin	2.5	10.1	6.1	0.9	4.5	3.6	8.0	3.4	2.5	4.5	1.6	1.9	2.2	4.9	27.4	2.2
B Merit	0.7	2.7	15.7	2.3	0.0	0.0	2.1	0.9	1.5	2.7	0.1	0.1	0.0	0.0	20.1	1.6
Lewis	0.3	1.2	4.8	0.7	6.1	4.9	7.1	3.0	0.7	1.3	0.0	0.0	0.0	0.0	19.0	1.5
Moravian 37	1.1	4.5	12.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	5.8	0.0	0.0	18.9	1.5
Moravian 22	0.0	0.0	0.7	0.1	0.4	0.3	0.0	0.0	0.8	1.4	15.5	18.5	0.0	0.0	17.4	1.4
Westford	1.6	6.3	1.4	0.2	2.0	1.6	4.7	2.0	2.2	4.0	2.2	2.6	1.3	3.0	15.4	1.2
Pioline	0.0	0.0	4.8	0.7	0.9	0.7	5.4	2.3	0.7	1.2	1.5	1.8	0.0	0.0	13.3	1.1
Galena	0.0	0.0	11.6	1.7	0.5	0.4	0.7	0.3	0.0	0.0	0.3	0.3	0.0	0.0	13.1	1.0
B 2601 *	0.0	0.0	10.9	1.6	0.0	0.0	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	12.8	1.0
Chinook *	0.0	0.0	5.4	0.8	1.3	1.0	4.9	2.1	0.0	0.0	0.3	0.3	0.0	0.0	11.9	1.0
Stark	0.0	0.0	0.0	0.0	10.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	11.1	0.9
Menuet	6.9	27.5	2.0	0.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.8
Westbred Medallion	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.8	1.9	3.4	0.3	0.4	0.0	0.0	8.8	0.7
Other & Unknown	0.5	2.3	23.2	3.4	12.3	10.1	7.0	3.0	4.9	8.8	8.5	10.3	5.5	12.8	61.9	4.9
ALL VARIETIES	25.0	100.0	681.0	100.0	125.0	100.0	235.0	100.0	56.0	100.0	84.0	100.0	44.0	100.0	1,250.0	100.0

\* American Malting Barley Association, Inc. recommended for malting and brewing for Montana.

**Barley: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001**

Variety	1995		1996		1997		1998		1999		2000 1/		2001		Seeded Acres (000)	
	1995	1996	1996	1997	1997	1998	1998	1999	1999	2000 1/	2000 1/	2001	2001	2001	2001	2001
Harrington *	24.9	32.6	33.4	42.1	49.6	49.9	49.9	45.5	45.5	623.6	623.6	500.2	500.2	45.5	45.5	45.5
Haybet	1.5	1.4	2.1	3.0	4.5	6.5	6.5	10.2	10.2	81.5	81.5	112.6	112.6	10.2	10.2	10.2
B 1202 *	6.1	5.4	5.1	4.7	5.2	5.4	5.4	5.5	5.5	60.0	60.0	57.6	57.6	5.5	5.5	5.5
Baronesse	11.9	12.2	15.6	12.1	7.6	6.2	6.2	5.2	5.2	77.0	77.0	57.6	57.6	5.2	5.2	5.2
Moravian 37	--	--	--	--	0.1	1.5	1.5	3.7	3.7	18.9	18.9	40.7	40.7	0.0	0.0	0.0
Gallatin	6.9	5.7	5.8	4.6	4.0	2.2	2.2	3.1	3.1	27.4	27.4	34.2	34.2	2.2	2.2	2.2
Westford	--	--	--	--	0.1	1.2	1.2	2.8	2.8	30.3	30.3	15.4	15.4	2.8	2.8	2.

# Barley Varieties 2002

STATE DOCUMENTS COLLECTION

1111 24 2002

MONTANA STATE LIBRARY  
1616 E. 6th AVE.  
HELENA, MONTANA 59620

MONTANA STATE LIBRARY



3 0864 1001 5357 9

MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

10 West 15th St. Suite 3100  
Helena, MT 59626  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-mt@nass.usda.gov](mailto:nass-mt@nass.usda.gov)

Released: July 12, 2002

Montana farmers seeded 1.2 million acres of barley in 2002, up 100,000 acres from last year. Over 56 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the ninth consecutive year.

## MALTING VARIETIES

**Harrington** remained the top variety planted in the state for the ninth year in a row. It was seeded on 572.5 thousand acres or 47.7 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**B 1202** maintained the second place malting variety position for the seventh consecutive year with 67.9 thousand acres or 5.7 percent of the barley planted. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald and stripe rust.

**Moravian 37** is ranked third among malting barley varieties for the second year in a row with a significant increase in seeded acreage to 54.1 thousand, or 4.5 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

**B Merit** rounds out the top four malting varieties again in 2002, with 31.6 thousand acres, or 2.6 percent of seeded acreage. B Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2002 for use in Montana.

## FEED VARIETIES

**Haybet** remained in the lead position for feed barley for the third year in a row, with almost 129 thousand acres planted this year, which accounted for 10.7 percent of the total barley acres seeded in Montana for 2002. This is 16.2 thousand more acres than the 112.6 thousand acres planted in 2001. Haybet was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Baronesse** was the second most popular feed barley again in 2002. It represents 3.6 percent of the total acreage or 42.9 thousand acres for feed barley seeded in Montana for 2002. This is down from the 55 thousand acres planted last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Hector** became the third place choice for feed barley this year with 37.9 thousand acres seeded or 3.2 percent of the barley acreage state-wide. This is compared to the 30.2 thousand acres planted in 2001. Originally released in Canada, Hector has a rough awn, yellow aleurone, and a horseshoe depression tending to crease. It has a mid-sized to small kernel and the rachilla is mid to long with long hairs. It has been recommended as a dryland feed barley by the Montana Agricultural Experiment Station.

**Bowman** is the fourth leading feed-type variety this year with 37.7 thousand acres or 3.1 percent of the state-wide barley acres seeded in 2002. This is compared to the 23.6 thousand acres planted in 2001. Released in 1984 by the North Dakota Agriculture Experiment Station, Bowman is a non-malting two-row barley that has a high drought tolerance and high test weight.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.8	10.7	406.9	66.7	41.0	27.3	80.8	35.9	22.5	56.2	16.8	16.8	2.7	4.6	572.5	47.7
Haybet	1.9	11.1	30.5	5.0	32.0	21.3	24.3	10.8	2.0	5.0	14.1	14.1	24.0	41.3	128.8	10.7
B 1202 *	0.0	0.0	38.4	6.3	0.9	0.6	11.5	5.1	0.0	0.0	17.1	17.1	0.0	0.0	67.9	5.7
Moravian 37	0.0	0.0	28.7	4.7	3.3	2.2	0.0	0.0	0.0	0.0	21.5	21.5	0.6	1.1	54.1	4.5
Baronesse	2.5	14.9	15.9	2.6	0.3	0.2	19.4	8.6	3.0	7.6	1.3	1.3	0.5	0.9	42.9	3.6
Hector	0.0	0.0	0.0	0.0	7.2	4.8	19.4	8.6	0.0	0.0	2.1	2.1	9.2	15.8	37.9	3.2
Bowman	0.0	0.0	19.5	3.2	11.9	7.9	1.1	0.5	0.0	0.0	1.3	1.3	3.9	6.7	37.7	3.1
Westford	3.3	19.6	1.8	0.3	2.7	1.8	14.6	6.5	4.9	12.2	3.5	3.5	3.5	6.1	34.3	2.9
B Merit *	0.0	0.0	23.8	3.9	0.0	0.0	3.6	1.6	0.2	0.6	4.0	4.0	0.0	0.0	31.6	2.6
Gallatin	0.3	1.8	6.1	1.0	4.5	3.0	6.8	3.0	1.3	3.2	1.2	1.2	1.8	3.1	22.0	1.8
Horsford	0.0	0.0	7.3	1.2	1.4	0.9	5.0	2.2	1.1	2.7	4.5	4.5	0.4	0.7	19.7	1.6
Lewis	0.0	0.0	5.5	0.9	8.0	5.3	3.8	1.7	0.2	0.5	0.0	0.0	1.8	3.1	19.3	1.6
Stark	0.0	0.0	6.1	1.0	8.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	14.3	1.2
Piroline	0.0	0.0	6.7	1.1	0.0	0.0	6.3	2.8	0.0	0.0	0.4	0.4	0.5	0.9	13.9	1.2
Valier	1.4	8.0	4.3	0.7	4.2	2.8	2.7	1.2	0.0	0.0	0.2	0.2	0.0	0.0	12.8	1.1
B 2601	0.0	0.0	0.0	0.0	0.0	0.0	11.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	11.9	1.0
Legacy *	0.0	0.0	3.1	0.5	2.0	1.3	1.1	0.5	0.0	0.0	0.0	0.0	1.0	1.8	7.2	0.6
Menuet	4.3	25.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	5.7	0.5
Robust	0.0	0.0	0.0	0.0	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	5.4	0.5
Chinook	0.0	0.0	0.0	0.0	0.8	0.5	4.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.4
Clark	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.5	0.0	0.0	4.0	4.0	0.0	0.0	5.1	0.4
Other & Unknown	1.5	8.8	4.8	0.8	16.5	11.3	7.1	3.2	4.8	12.0	8.0	8.0	7.0	12.0	49.7	4.1
All Varieties	17.0	100.0	610.0	100.0	150.0	100.0	225.0	100.0	40.0	100.0	100.0	100.0	58.0	100.0	1,200.0	100.0

\*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2002.

1/ Columns may not sum to all varieties due to rounding.

Variety	Barley: Percent of Total Seeded Acreage 1996-2002 & Seeded Acreage 2001-2002 1/								Seeded Acres (000)					
	1996		1997		1998		1999		2000	2001 2/	2002			
	2001 2/	2002												
Harrington *	32.6		33.4		42.1		49.6		49.9		45.7	47.7	502.5	572.5
Haybet	1.4		2.1		3.0		4.5		6.5		10.2	10.7	110.8	128.8
B 1202 *	5.4		5.1		4.7		5.2		5.4		5.6	5.7	62.1	67.9
Moravian 37	--		--		--		0.1		1.5		3.8	4.5	42.0	54.1
Baronesse	12.2		15.6		12.1		7.6		6.2		5.0	3.6	55.0	42.9
Hector	10.2		8.8		6.8		4.9		3.7		2.7	3.2	30.2	37.9
Bowman	6.0		4.7		3.1		2.7		2.8		2.1	3.1	23.6	37.7
Westford	--		--		--		0.1		1.2		2.7	2.9	29.3	34.3
B Merit *	0.0		0.0		0.3		1.2		1.6		1.1	2.6	12.5	31.6
Gallatin	5.7		5.8		4.6		4.0		2.2		3.3	1.8	35.9	22.0
Horsford	2.3		1.7		2.1		1.7		2.4		1.3	1.6	14.2	19.7
Lewis	2.4		1.5		2.1		2.3		1.5		1.5	1.6	16.1	19.3
Stark	0.7		0.8		0.9		1.9		0.9		0.8	1.2	8.7	14.3
Piroline	3.0		3.4		2.2		1.9		1.1		1.2	1.2	12.9	13.9
Valier	--		--		--		--		0.1		0.6	1.1	6.5	12.8
B 2601	1.3		1.8		0.8		1.0		1.0		0.8	1.0	8.9	11.9
Legacy *	--		--		--		--		--		--	0.6	--	7.2
Menuet	1.1		0.7		0.9		0.6		0.8		0.4	0.5	4.8	5.7
Robust	--		--		--		--		0.2		0.7	0.5	7.3	5.4
Chinook	--		--		--		--		--		--	0.4	--	5.3
Clark	--		--		--		--		--		--	0.4	--	5.1
Other & Unknown	15.7		14.6		14.3		10.7		11.0		10.5	4.1	116.7	49.7
All Varieties	100.0		100.0		100.0		100.0		100.0		100.0	1,100.0	1,200.0	1,200.0

\*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2002.

1/ Columns may not sum to all varieties due to rounding. 2/ Revised.

Variety	Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2001 Revised 1/								State Total							
	Northwest		North Central		Northeast		Central		Southwest	South Central	Southeast					
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%				
Harrington *	1.2	6.1	356.4	64.1	15.4	12.4	90.7	42.8	19.3	40.2	16.4	18.4	3.1	6.0	502.5	45.7
Haybet	3.3	16.4	21.1	3.8	37.6	30.3	15.5	7.3	1.7	3.6	9.5	10.7	22.1	43.3	110.8	10.2
B 1202 *	0.0	0.0	35.0	6.3	0.2	0.2	15.3	7.2	0.0	0.0	11.6	13.0	0.0	0.0	62.1	5.6
Baronesse	6.0	30.1	17.2	3.1	6.2	5.0	11.7	5.5	8.3	17.2	5.1	5.7	0.5	0.9	55.0	5.0
Moravian 37	0.0	0.0	22.2	4.0	1.6	1.3	0.0	0.0	0.0	0.0	18.2	20.4	0.0	0.0	42.0	3.8
Gallatin	1.1	5.7	1.1	0.2	2.1	1.7	15.1	7.1	4.8	10.0	8.8	9.9	2.9	5.7	35.9	3.3
Westford	2.4	12.2	2.2	0.4	3.8	3.1	9.5	4.5	8.1	16.8	2.8	3.2	0.5	0.9	29.3	2.7
Hector	0.0	0.0	1.1	0.2	7.8	6.3	14.6	6.9	0.2	0.4	1.6	1.8	4.9	9.7	30.2	2.7
Bowman	0.0	0.0	12.2	2.2	5.8	4.7	0.2	0.1	0.0	0.0	3.8	4.3	1.6	3.2	23.6	2.1
Lewis	0.5	2.5	3.9	0.7	4.8	3.9	3.4	1.6	1.1	2.2	0.0	0.0	2.4	4.7	16.1	1.5
Horsford	0.4	2.2	1.7	0.3	2.6	2.1	6.1	2.9	0.0	0.0	2.0	2.2	1.4	2.8	14.2	1.3
Piroline	0.0	0.0	6.7	1.2	0.5	0.4	4.0	1.9	0.0	0.0	1.1	1.2	0.6	1.2	12.9	1.2
B Merit *	0.0	0.0	8.3	1.5	0.0	0.0	2.3	1.1	0.8	1.6	1.1	1.2	0.0	0.0	12.5	1.1
Dolly	0.0	0.0	9.5	1.7	0.0	0.0	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	1.1
Garnet	0.0	0.0	10.0													

# Montana Barley Varieties

STATE DOCUMENTS COLLECTION

S ~ ~ ~  
338.14  
A7bv  
2003

4, 2003

JUL 25 2003  
MONTANA STATE LIBRARY  
1515 E. 6th AVE.  
HELENA MONTANA 59601



MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

10 W 15th St Suite 3100  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-mt@nass.usda.gov](mailto:nass-mt@nass.usda.gov)

MONTANA STATE LIBRARY

3 0864 1002 0579 1

Montana farmers seeded 1.2 million acres of barley in 2003, unchanged from last year. Some 58 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the tenth consecutive year.

## MALTING VARIETIES

**Harrington** remained the top variety planted in the state for the tenth year in a row. It was seeded on 551.9 thousand acres or 46.0 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**B 1202** maintained the second place malting variety position for the eighth consecutive year with 57.1 thousand acres or 4.8 percent of the barley seeded. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald and stripe rust.

**Moravian 37** is ranked third among malting barley varieties for the third year in a row with 44.9 thousand acres, or 3.7 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

**Merit** rounds out the top four malting varieties again in 2003, with 43.8 thousand acres, or 3.7 percent of seeded acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2003 for use in Montana.

## FORAGE VARIETIES

**Haybet** remained the most popular forage barley for the fourth year in a row, with 123.1 thousand acres seeded, which accounted for 10.3 percent of the total barley acres seeded in Montana for 2003. Haybet, as the name implies, is used primarily for hay in Montana. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** was the second most popular forage barley, with 28.5 thousand acres or 2.4 percent of the state-wide barley acres seeded in 2003. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

## FEED VARIETIES

**Baronesse** was the most popular feed barley again in 2003. It represents 4.2 percent of the total acreage or 50.4 thousand acres for feed barley seeded in Montana for 2003. This is up from the 46.3 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Gallatin** replaced its cousin Hector this year as the second most popular feed barley grown. Statewide, 35.7 thousand acres were seeded, which is 3.0 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.0	6.7	375.6	64.2	34.8	22.0	89.1	37.9	30.8	59.2	15.1	16.8	4.5	9.0	551.9	46.0
Haybet	4.8	16.1	22.8	3.9	39.3	24.9	22.6	9.6	4.1	7.8	6.6	7.3	22.9	45.8	123.1	10.3
B 1202*	0.5	1.7	34.5	5.9	0.0	0.0	7.3	3.1	0.0	0.0	14.8	16.4	0.0	0.0	57.1	4.8
Baronesse	3.9	13.1	16.4	2.8	6.8	4.3	16.2	6.9	4.3	8.3	0.9	1.0	1.9	3.7	50.4	4.2
Moravian 37	0.0	0.0	24.6	4.2	1.9	1.2	0.0	0.0	0.0	0.0	17.6	19.6	0.8	1.6	44.9	3.7
Merit*	0.0	0.0	34.5	5.9	0.0	0.0	8.0	3.4	0.4	0.7	0.9	1.0	0.0	0.0	43.8	3.7
Gallatin	4.7	15.7	14.6	2.5	0.0	0.0	10.8	4.6	1.5	2.8	3.0	3.3	1.1	2.1	35.7	3.0
Westford	1.3	4.2	2.3	0.4	3.2	2.0	15.7	6.7	1.7	3.2	3.4	3.8	0.9	1.8	28.5	2.4
Bowman	0.0	0.0	9.9	1.7	4.3	2.7	7.3	3.1	0.0	0.0	0.8	0.9	3.2	6.4	25.5	2.1
Hector	0.0	0.0	2.3	0.4	3.6	2.3	9.9	4.2	0.3	0.5	2.6	2.9	3.8	7.6	22.5	1.9
Horsford	1.5	5.0	2.3	0.4	7.0	4.4	4.2	1.8	1.6	3.0	2.7	3.0	2.5	4.9	21.8	1.8
Lewis	2.0	6.8	4.7	0.8	8.7	5.5	4.0	1.7	0.0	0.0	0.0	0.0	1.6	3.1	21.0	1.8
Piroline	0.0	0.0	1.8	0.3	0.0	0.0	10.8	4.6	0.6	1.1	3.2	3.5	0.0	0.0	16.4	1.4
Robust*	0.0	0.0	0.0	0.0	12.3	7.8	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	14.2	1.2
Stark	0.0	0.0	2.3	0.4	9.3	5.9	0.7	0.3	0.0	0.0	0.0	0.0	0.9	1.8	13.2	1.1
Legacy*	0.0	0.0	2.3	0.4	5.7	3.6	2.8	1.2	0.0	0.0	0.0	0.0	1.1	2.1	11.9	1.0
Westbred Xena	0.4	1.4	6.4	1.1	0.0	0.0	3.1	1.3	0.0	0.0	1.2	1.3	0.0	0.0	11.1	0.9
Valier	1.8	6.1	3.5	0.6	3.3	2.1	1.4	0.6	0.0	0.0	0.0	0.0	1.0	1.9	11.0	0.9
Metcalfe	0.0	0.0	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.6
Chinook	0.1	0.3	0.0	0.0	0.8	0.5	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.5
Excel*	0.0	0.0	0.0	0.0	4.3	2.7	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	4.5	0.4
Other & Unknown	7.0	22.8	16.6	3.0	12.7	8.0	13.6	5.8	6.7	13.4	17.0	19.0	3.8	8.0	77.4	6.5
All Varieties	30.0	100.0	585.0	100.0	158.0	100.0	235.0	100.0	52.0	100.0	90.0	100.0	50.0	100.0	1,200.0	100.0

1/ Columns may not sum to all varieties due to rounding. \*Variety recommended by the American Malting Barley Association for planting in Montana in 2003.

Barley: Percent of Total Seeded Acreage 1997-2003 & Seeded Acreage 2002-2003 1/									
Variety	Percent of Total							Seeded Acres (000)	
	1997	1998	1999	2000	2001	2002 2/	2003	2002 2/	2003
Harrington*	33.4	42.1	49.6	49.9	45.7	47.6	46.0	571.6	551.9
Haybet	2.1	3.0	4.5	6.5	10.2	10.5	10.3	125.7	123.1
B 1202*	5.1	4.7	5.2	5.4	5.6	5.6	4.8	66.7	57.1
Baronesse	15.6	12.1	7.6	6.2	5.0	3.9	4.2	46.3	50.4
Moravian 37	--	--	0.1	1.5	3.8	4.3	3.7	52.0	44.9
Merit*	0.0	0.3	1.2	1.6	1.1	2.6	3.7	31.1	43.8
Gallatin	5.8	4.6	4.0	2.2	3.3	1.9	3.0	22.2	35.7
Westford	--	--	0.1	1.2	2.7	3.2	2.4	38.3	28.5
Bowman	4.7	3.1	2.7	2.8	2.1	3.0	2.1	35.8	25.5
Hector	8.8	6.8	4.9	3.7	2.7	3.1	1.9	37.4	22.5
Horsford	1.7	2.1	1.7	2.4	1.3	1.6	1.8	19.7	21.8
Lewis	1.5	2.1	2.3	1.5	1.5	1.6	1.8	18.7	21.0
Piroline	3.4	2.2	1.9	1.1	1.2	1.2	1.4	14.1	16.4
Robust*	--	--	--	0.2	0.7	0.4	1.2	4.9	14.2
Stark	0.8	0.9	1.9	0.9	0.8	1.1	1.1	13.5	13.2
Legacy*	--	--	--	--	--	0.6	1.0	6.9	11.9
Westbred Xena	--	--	--	--	--	--	0.9	--	11.1
Valier	--	--	--	0.1	0.6	1.1	0.9	13.4	11.0
Metcalfe	--	--	--	--	--	--	0.6	--	7.6
Chinook	--	--	--	--	--	0.5	0.5	5.5	6.5
Excel*	--	--	--	--	--	--	0.4	--	4.5
Other & Unknown	17.1	16.0	12.3	12.8	11.7	6.2	6.5	76.2	77.4
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,200.0	1,200.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised.

\*Variety recommended by the American Malting Barley Association for planting in Montana in 2003.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2002 Revised 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	3.0	10.7	396.9	66.7	37.7	27.3	85.8	35.9	29.8	56.2	16.0	16.8	2.4	4.6	571.6	47.6
Haybet	3.1	11.1	29.8	5.0	29.4	21.3	25.8	10.8	2.7	5.0	13.4	14.1	21.5	41.3	125.7	10.5
B 1202 *	0.0	0.0	37.5	6.3	0.8	0.6	12.2	5.1	0.0	0.0	16.2	17.1	0.0	0.0	66.7	5.6
Moravian 37	0.0	0.0	28.0	4.7	3.0	2.2	0.0	0.0	0.0	0.0	20.4	21.5	0.6	1.1	52.0	4.3
Baronesse	4.2	14.9	15.5	2.6	0.3	0.2	20.6	8.6	4.0	7.6	1.2	1.3	0.5	0.9	46.3	3.9
Westford	5.5	19.6	1.8	0.3	2.5	1.8	15.5	6.5	6.5	12.2	3.3	3.5	3.2	6.1	38.3	3.2
Hector	0.0	0.0	0.0	0.0	6.6	4.8	20.6	8.6	0.0	0.0	2.0	2.1	8.2	15.8	37.4	3.1
Bowman	0.0	0.0	19.0	3.2	10.9	7.9	1.2	0.5	0.0	0.0	1.2	1.3	3.5	6.7	35.8	3.0
Merit *	0.0	0.0	23.2	3.9	0.0	0.0	3.8	1.6	0.3	0.6	3.8	4.0	0.0	0.0	31.1	2.6
Gallatin	0.5	1.8	6.0	1.0	4.1	3.0	7.2	3.0	1.7	3.2	1.1	1.2	1.6	3.1	22.2	1.9
Horsford	0.0	0.0	7.1	1.2	1.2	0.9	5.3	2.2	1.4	2.7	4.3	4.5	0.4	0.7	19.7	1.6
Lewis	0.0	0.0	5.4	0.9	7.3	5.3	4.1	1.7	0.3	0.5	0.0	0.0	1.6	3.1	18.7	1.6
Pirolioe	0.0	0.0	6.5	1.1	0.0	0.0	6.7	2.8	0.0	0.0	0.4	0.4	0.5	0.9	14.1	1.2
Stark	0.0	0.0	6.0	1.0	7.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	13.5	1.1
Valier	2.2	8.0	4.2	0.7	3.9	2.8	2.9	1.2	0.0	0.0	0.2	0.2	0.0	0.0	13.4	1.1
B 2601	0.0	0.0	0.0	0.0	0.0	0.0	12.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	12.7	1.1
Menuet	7.0	25.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	8.3	0.7
Legacy *	0.0	0.0	3.0	0.5	1.8	1.3	1.2	0.5	0.0	0.0	0.0	0.0	0.9	1.8	6.9	0.6
Chinook	0.0	0.0	0.0	0.0	0.7	0.5	4.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.5
Clark	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	0.0	0.0	3.8	4.0	0.0	0.0	5.0	0.4
Robust	0.0	0.0	0.0	0.0	4.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	4.9	0.4
Other & Unknown	2.5	8.8	4.5	0.8	15.7	11.3	7.4	3.2	6.3	12.0	7.7	8.0	6.1	12.0	50.2	4.2
All Varieties	28.0	100.0	595.0	100.0	138.0	100.0	239.0	100.0	53.0	100.0	95.0	100.0	52.0	100.0	1,200.0	100.0

<sup>1</sup>/ Columns may not sum to all varieties due to rounding. \*Variety recommended by the American Malting Barley Association for planting in Montana in 2002.

# Barley Varieties

STATE DOCUMENTS COLLECTION

2004

111 16 2004

STATE LIBRARY  
1001 E. 6th AVE.  
HELENA MONTANA 59001

Released: July 12, 2004



MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

10 W 15th St Suite 3100  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/nass-mt@nass.usda.gov](http://www.nass.usda.gov/mt/nass-mt@nass.usda.gov)

Montana State Library



3 0864 1003 0041 0

Montana farmers seeded 1.0 million acres of barley in 2004, down 9 percent from last year. Fifty-three percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eleventh consecutive year.

## MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the eleventh year in a row. It was seeded on 403.3 thousand acres or 40.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalfe** joins the top four list this year, bumping out Moravian 37. It came in second place this year, with 49.5 thousand acres planted, which accounts for 5.0 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spotinia.

**B Merit** moves up to third place this year, with 44.0 thousand acres seeded, or 4.4 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2004 for use in Montana.

**B 1202** drops to fourth place this year, after eight consecutive years at number two. It accounts for 38.9 thousand of the barley acres seeded this year, or 3.9 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

## FORAGE VARIETIES

**Haybet** remains the most popular forage barley for the fifth year in a row, with 99.0 thousand acres seeded, which accounts for 9.9 percent of the total barley acres seeded in Montana for 2004. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kernelled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** is the second most popular forage barley for the second year in a row, with 23.2 thousand acres or 2.3 percent of the state barley acres seeded in 2004. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

## FEED VARIETIES

**Baronesse** is the most popular feed barley again in 2004. It represents 3.9 percent of the total acreage or 38.8 thousand acres for feed barley seeded in Montana for 2004. This is down from the 44.7 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Gallatin** maintains its place as the second most popular feed barley grown for the second year in a row. Statewide, 34.3 thousand acres were seeded, which is 3.4 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2004 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.4	10.9	299.0	57.5	13.5	11.4	51.0	30.0	14.9	42.6	20.8	23.1	1.7	3.8	403.3	40.3
Haybet	2.3	10.5	18.7	3.6	32.2	27.3	10.5	6.2	1.6	4.6	10.9	12.1	22.8	50.7	99.0	9.9
AC Metcalfe	0.0	0.0	42.1	8.1	0.0	0.0	6.8	4.0	0.6	1.7	0.0	0.0	0.0	0.0	49.5	5.0
B Merit*	0.0	0.0	38.8	7.4	0.2	0.2	3.1	1.8	1.1	3.1	0.8	0.9	0.0	0.0	44.0	4.4
Baronesse	0.0	0.0	25.7	4.7	2.7	2.3	3.1	1.8	0.0	0.0	7.4	8.2	0.0	0.0	38.9	3.9
B 1202*	4.6	20.9	9.9	1.9	0.7	0.6	16.5	9.7	5.9	16.9	0.9	1.0	0.3	0.7	38.8	3.9
Gallatin	1.8	8.2	7.8	1.5	0.4	0.3	17.2	10.1	2.9	8.3	4.1	4.6	0.1	0.2	34.3	3.4
Moravian 37	0.0	0.0	10.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	23.9	0.5	1.1	32.4	3.2
Legacy*	0.0	0.0	19.9	3.8	7.4	6.3	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.1	28.1	2.8
Hector	0.4	1.8	4.7	0.9	6.8	5.8	7.8	4.6	0.0	0.0	3.1	3.4	1.5	3.3	24.3	2.4
Valier	4.5	20.5	9.9	1.9	3.3	2.8	5.3	3.1	0.1	0.3	0.0	0.0	0.8	1.8	23.9	2.4
Westford	0.6	2.7	3.1	0.6	2.2	1.9	9.7	5.7	3.2	9.1	3.8	4.2	0.6	1.3	23.2	2.3
Lewis	0.0	0.0	1.6	0.3	8.9	7.5	4.8	2.8	0.0	0.0	1.4	1.6	1.8	4.0	18.5	1.9
Bowman	0.0	0.0	4.2	0.8	3.9	3.3	2.0	1.2	0.0	0.0	0.5	0.6	3.1	6.9	13.7	1.4
Horsford	1.0	4.5	0.5	0.1	0.8	0.7	4.3	2.5	0.7	2.0	3.2	3.5	1.6	3.6	12.1	1.2
Robust*	0.0	0.0	0.0	0.0	9.1	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.6	1.0
Pioline	0.0	0.0	3.6	0.7	0.0	0.0	4.8	2.8	0.0	0.0	0.8	0.9	0.0	0.0	9.2	0.9
Stark	0.0	0.0	0.0	0.0	5.9	5.0	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.9
Westbred Xena	0.1	0.5	4.7	0.9	0.0	0.0	3.6	2.1	0.0	0.0	0.1	0.1	0.0	0.0	8.5	0.8
Conlon*	0.0	0.0	0.0	0.0	1.1	0.9	3.1	1.8	0.0	0.0	0.0	0.0	3.6	8.0	7.8	0.8
Other & Unknown	4.3	19.5	17.2	3.3	18.9	16.0	12.5	7.5	4.0	11.4	10.7	11.9	6.1	13.5	71.9	7.2
<b>All Varieties</b>	<b>22.0</b>	<b>100.0</b>	<b>520.0</b>	<b>100.0</b>	<b>118.0</b>	<b>100.0</b>	<b>170.0</b>	<b>100.0</b>	<b>35.0</b>	<b>100.0</b>	<b>90.0</b>	<b>100.0</b>	<b>45.0</b>	<b>100.0</b>	<b>1,000.0</b>	<b>100.0</b>

1/ Columns may not sum to all varieties due to rounding. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Percent of Total Seeded Acreage 1998-2004 & Seeded Acreage 2003-2004 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1998	1999	2000	2001	2002	2003 2/	2004	2003 2/	2004
Harrington*	42.1	49.6	49.9	45.7	47.6	47.1	40.3	518.2	403.3
Haybet	3.0	4.5	6.5	10.2	10.5	9.9	9.9	109.0	99.0
AC Metcalfe	--	--	--	--	--	0.7	5.0	7.4	49.5
B Merit*	0.3	1.2	1.6	1.1	2.6	3.8	4.4	41.5	44.0
Baronesse	12.1	7.6	6.2	5.0	3.9	4.1	3.9	44.7	38.9
B 1202*	4.7	5.2	5.4	5.6	5.6	4.9	3.9	53.8	38.8
Gallatin	4.6	4.0	2.2	3.3	1.9	2.9	3.4	31.7	34.3
Moravian 37	--	0.1	1.5	3.8	4.3	3.9	3.2	42.7	32.4
Valier	--	--	0.1	0.6	1.1	0.9	2.8	9.5	28.1
Hector	6.8	4.9	3.7	2.7	3.1	1.8	2.4	20.1	24.3
Westford	--	0.1	1.2	2.7	3.2	2.3	2.4	24.8	23.9
Lewis	2.1	2.3	1.5	1.5	1.6	1.6	2.3	18.0	23.2
Bowman	3.1	2.7	2.8	2.1	3.0	2.1	1.9	23.3	18.5
Legacy*	--	--	--	--	0.6	1.0	1.4	10.6	13.7
Horsford	2.1	1.7	2.4	1.3	1.6	1.7	1.2	19.0	12.1
Robust*	--	--	0.2	0.7	0.4	1.1	1.0	11.9	9.6
Pioline	2.2	1.9	1.1	1.2	1.2	1.3	0.9	14.5	9.2
Stark	0.9	1.9	0.9	0.8	1.1	1.0	0.9	11.5	9.0
Westbred Xena	--	--	--	--	--	0.9	0.8	10.2	8.5
Conlon*	--	--	--	--	--	--	0.8	--	7.8
Other & Unknown	16.0	12.3	12.8	11.7	6.2	6.2	7.2	68.2	71.9
<b>All Varieties</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>1,100.0</b>	<b>1,000.0</b>

1/ Columns may not sum to all varieties due to rounding. 2/ Revised. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/ 2/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	1.3	6.8	363.4	64.2	29.0	22.0	76.6	37.9	29.6	59.2	14.1	16.8	4.2	8.9	518.2	47.1
Haybet	3.1	16.3	22.1	3.9	32.9	24.9	19.4	9.6	3.9	7.8	6.1	7.3	21.5	45.8	109.0	9.9
B 1202*	0.3	1.6	33.4	5.9	0.0	0.0	6.3	3.1	0.0	0.0	13.8	16.4	0.0	0.0	53.8	4.9
Baronesse	2.5	13.2	15.8	2.8	5.8	4.4	13.9	6.9	4.2	8.4	0.8	1.0	1.7	3.6	44.7	4.1
Moravian 37	0.0	0.0	23.8	4.2	1.6	1.2	0.0	0.0	0.0	0.0	16.5	19.6	0.8	1.7	42.7	3.9
Merit*	0.0	0.0	33.4	5.9	0.0	0.0	6.9	3.4	0.4	0.8	0.8	1.0	0.0	0.0	41.5	3.8
Gallatin	3.0	15.8	14.2	2.5	0.0	0.0	9.3	4.6	1.4	2.8	2.8	3.3	1.0	2.1	31.7	2.9
Westford	0.8	4.2	2.3	0.4	2.6	2.0	13.5	6.7	1.6	3.2	3.2	3.8	0.8	1.7	24.8	2.3
Bowman	0.0	0.0	9.6	1.7	3.6	2.7	6.3	3.1	0.0	0.0	0.8	0.9	3.0	6.4	23.3	2.1
Hector	0.0	0.0	2.3	0.4	3.0	2.3	8.5	4.2	0.3	0.6	2.4	2.9	3.6	7.7	20.1	1.8
Horsford	1.0	5.3	2.3	0.4	5.8	4.4	3.6	1.8	1.5	3.0	2.5	3.0	2.3	4.9	19.0	1.7
Lewis	1.3	6.8	4.5	0.8	7.3	5.5	3.4	1.7	0.0	0.0	0.0	0.0	1.5	3.2	18.0	1.6
Pioline	0.0	0.0	1.7	0.3	0.0	0.0	9.3	4.6	0.6	1.2	2.9	3.5	0.0	0.0	14.5	1.3
Robust*	0.0	0.0	0.0	0.0	10.3	7.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	11.9	1.1
Stark	0.0	0.0	2.3	0.4	7.8	5.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.8	11.5	1.0
Legacy*	0.0	0.0	2.3	0.4	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0	1.0	2.1	10.6	1.0
Westbred Xena	0.3	1.6	6.2	1.1	0.0	0.0	2.6	1.3	0.0	0.0	1.1	1.3	0.0	0.0	10.2	0.9
Valier	1.2	6.3	3.4	0.6	2.8	2.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.9	9.5	0.9
Metcalfe	0.0	0.0	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.7
Chinook	0.1	0.5	0.0	0.0	0.7	0.5	4.8	2.4	0.0	0.0	0.0	0.0				



Montana

# Barley Varieties

## 2004

Released: July 22, 2004 - Corrected

Montana farmers seeded 1.0 million acres of barley in 2004, down 9 percent from last year. Fifty-three percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eleventh consecutive year.

### MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the eleventh year in a row. It was seeded on 403.3 thousand acres or 40.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalfe** joins the top four list this year, bumping out Moravian 37. It came in second place this year, with 49.5 thousand acres planted, which accounts for 5.0 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spotinia.

**Merit** moves up to third place this year, with 44.0 thousand acres seeded, or 4.4 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2004 for use in Montana.

**B 1202** drops to fourth place this year, after eight consecutive years at number two. It accounts for 38.8 thousand of the barley acres seeded this year, or 3.9 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

### FORAGE VARIETIES

**Haybet** remains the most popular forage barley for the fifth year in a row, with 99.0 thousand acres seeded, which accounts for 9.9 percent of the total barley acres seeded in Montana for 2004. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** is the second most popular forage barley for the second year in a row, with 23.2 thousand acres or 2.3 percent of the state barley acres seeded in 2004. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

### FEED VARIETIES

**Baronesse** is the most popular feed barley again in 2004. It represents 3.9 percent of the total acreage or 38.9 thousand acres for feed barley seeded in Montana for 2004. This is down from the 44.7 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Gallatin** maintains its place as the second most popular feed barley grown for the second year in a row. Statewide, 34.3 thousand acres were seeded, which is 3.4 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

### Barley: 2004 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.4	10.9	299.0	57.5	13.5	11.4	51.0	30.0	14.9	42.6	20.8	23.1	1.7	3.8	403.3	40.3
Haybet	2.3	10.5	18.7	3.6	32.2	27.3	10.5	6.2	1.6	4.6	10.9	12.1	22.8	50.7	99.0	9.9
AC Metcalfe	0.0	0.0	42.1	8.1	0.0	0.0	6.8	4.0	0.6	1.7	0.0	0.0	0.0	0.0	49.5	5.0
Merit*	0.0	0.0	38.8	7.5	0.2	0.2	3.1	1.8	1.1	3.1	0.8	0.9	0.0	0.0	44.0	4.4
Baronesse	0.0	0.0	25.7	4.9	2.7	2.3	3.1	1.8	0.0	0.0	7.4	8.2	0.0	0.0	38.9	3.9
B 1202*	4.6	20.9	9.9	1.9	0.7	0.6	16.5	9.7	5.9	16.9	0.9	1.0	0.3	0.7	38.8	3.9
Gallatin	1.8	8.2	7.8	1.5	0.4	0.3	17.2	10.1	2.9	8.3	4.1	4.6	0.1	0.2	34.3	3.4
Moravian 37	0.0	0.0	10.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	23.9	0.5	1.1	32.4	3.2
Legacy*	0.0	0.0	19.9	3.8	7.4	6.3	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.1	28.1	2.8
Hector	0.4	1.8	4.7	0.9	6.8	5.8	7.8	4.6	0.0	0.0	3.1	3.4	1.5	3.3	24.3	2.4
Valier	4.5	20.5	9.9	1.9	3.3	2.8	5.3	3.1	0.1	0.3	0.0	0.0	0.8	1.8	23.9	2.4
Westford	0.6	2.7	3.1	0.6	2.2	1.9	9.7	5.7	3.2	9.1	3.8	4.2	0.6	1.3	23.2	2.3
Lewis	0.0	0.0	1.6	0.3	8.9	7.5	4.8	2.8	0.0	0.0	1.4	1.6	1.8	4.0	18.5	1.9
Bowman	0.0	0.0	4.2	0.8	3.9	3.3	2.0	1.2	0.0	0.0	0.5	0.6	3.1	6.9	13.7	1.4
Horsford	1.0	4.5	0.5	0.1	0.8	0.7	4.3	2.5	0.7	2.0	3.2	3.5	1.6	3.6	12.1	1.2
Robust*	0.0	0.0	0.0	0.0	9.1	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.6	1.0
Piroline	0.0	0.0	3.6	0.7	0.0	0.0	4.8	2.8	0.0	0.0	0.8	0.9	0.0	0.0	9.2	0.9
Stark	0.0	0.0	0.0	0.0	5.9	5.0	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.9
Westbred Xena	0.1	0.5	4.7	0.9	0.0	0.0	3.6	2.1	0.0	0.0	0.1	0.1	0.0	0.0	8.5	0.8
Conlon*	0.0	0.0	0.0	0.0	1.1	0.9	3.1	1.8	0.0	0.0	0.0	0.0	3.6	8.0	7.8	0.8
Other & Unknown	4.3	19.5	15.4	3.0	18.9	16.0	12.5	7.5	4.0	11.4	10.7	11.9	6.1	13.5	71.9	7.2
All Varieties	22.0	100.0	520.0	100.0	118.0	100.0	170.0	100.0	35.0	100.0	90.0	100.0	45.0	100.0	1,000.0	100.0

1/ Columns may not sum to all varieties due to rounding. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Percent of Total Seeded Acreage 1998-2004 & Seeded Acreage 2003-2004 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1998	1999	2000	2001	2002	2003 2/	2004	2003 2/	2004
Harrington*	42.1	49.6	49.9	45.7	47.6	47.1	40.3	518.2	403.3
Haybet	3.0	4.5	6.5	10.2	10.5	9.9	9.9	109.0	99.0
AC Metcalfe	--	--	--	--	--	0.7	5.0	7.4	49.5
Merit*	0.3	1.2	1.6	1.1	2.6	3.8	4.4	41.5	44.0
B 1202*	4.7	5.2	5.4	5.6	5.6	4.9	3.9	53.8	38.9
Baronesse	12.1	7.6	6.2	5.0	3.9	4.1	3.9	44.7	38.8
Gallatin	4.6	4.0	2.2	3.3	1.9	2.9	3.4	31.7	34.3
Moravian 37	--	0.1	1.5	3.8	4.3	3.9	3.2	42.7	32.4
Legacy*	--	--	--	--	0.6	1.0	2.8	10.6	28.1
Hector	6.8	4.9	3.7	2.7	3.1	1.8	2.4	20.1	24.3
Valier	--	--	0.1	0.6	1.1	0.9	2.4	9.5	23.9
Westford	--	0.1	1.2	2.7	3.2	2.3	2.3	24.8	23.2
Lewis	2.1	2.3	1.5	1.5	1.6	1.6	1.9	18.0	18.5
Bowman	3.1	2.7	2.8	2.1	3.0	2.1	1.4	23.3	13.7
Horsford	2.1	1.7	2.4	1.3	1.6	1.7	1.2	19.0	12.1
Robust*	--	--	0.2	0.7	0.4	1.1	1.0	11.9	9.6
Piroline	2.2	1.9	1.1	1.2	1.2	1.3	0.9	14.5	9.2
Stark	0.9	1.9	0.9	0.8	1.1	1.0	0.9	11.5	9.0
Westbred Xena	--	--	--	--	--	0.9	0.8	10.2	8.5
Conlon	--	--	--	--	--	--	0.8	--	7.8
Other & Unknown	16.0	12.3	12.8	11.7	6.7	7.0	7.2	77.6	71.9
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,100.0	1,000.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/, 2/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	1.3	6.8	363.4	64.2	29.0	22.0	76.6	37.9	29.6	59.2	14.1	16.8	4.2	8.9	518.2	47.1
Haybet	3.1	16.3	22.1	3.9	32.9	24.9	19.4	9.6	3.9	7.8	6.1	7.3	21.5	45.8	109.0	9.9
B 1202*	0.3	1.6	33.4	5.9	0.0	0.0	6.3	3.1	0.0	0.0	13.8	16.4	0.0	0.0	53.8	4.9
Baronesse	2.5	13.2	15.8	2.8	5.8	4.4	13.9	6.9	4.2	8.4	0.8	1.0	1.7	3.6	44.7	4.1
Moravian 37	0.0	0.0	23.8	4.2	1.6	1.2	0.0	0.0	0.0	0.0	16.5	19.6	0.8	1.7	42.7	3.9
Merit*	0.0	0.0	33.4	5.9	0.0	0.0	6.9	3.4	0.4	0.8	1.0	0.0	0.0	0.0	41.5	3.8
Gallatin	3.0	15.8	14.2	2.5	0.0	0.0	9.3	4.6	1.4	2.8	2.8	3.3	1.0	2.1	31.7	2.9
Westford	0.8	4.2	2.3	0.4	2.6	2.0	13.5	6.7	1.6	3.2	3.2	3.8	0.8	1.7	24.8	2.3
Bowman	0.0	0.0	9.6	1.7	3.6	2.7	6.3	3.1	0.0	0.0	0.8	0.9	3.0	6.4	23.3	2.1
Hector	0.0	0.0	2.3	0.4	3.0	2.3	8.5	4.2	0.3	0.6	2.4	2.9	3.6	7.7	20.1	1.8
Horsford	1.0	5.3	2.3	0.4	5.8	4.4	3.6	1.8	1.5	3.0	2.5	3.0	2.3	4.9	19.0	1.7
Lewis	1.3	6.8	4.5	0.8	7.3	5.5	3.4	1.7	0.0	0.0	0.0	0.0	1.5	3.2	18.0	1.6
Piroline	0.0	0.0	1.7	0.3	0.0	0.0	9.3	4.6	0.6	1.2	2.9	3.5	0.0	0.0	14.5	1.3
Robust*	0.0	0.0	0.0	0.0	10.3	7.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	11.9	1.1
Stark	0.0	0.0	2.3	0.4	7.8	5.9	0.6	0.3	0.0	0.0	0.0	0.0	0.8	1.7	11.5	1.0
Legacy*	0.0	0.0	2.3	0.4	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0	1.0	2.1	10.6	1.0
Westbred Xena	0.3	1.6	6.2	1.1	0.0	0.0	2.6	1.3	0.0	0.0	1.1	1.3	0.0	0.0	10.2	0.9
Valier	1.2	6.3	3.4	0.6	2.8	2.1	1.2	0.6	0.0	0.0	0.0	0.0	0.9	1.9	9.5	0.9
AC Metcalfe	0.0	0.0	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.7
Chinook	0.1	0.5	0.0	0.0	0.7	0.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.5
Excel*	0.0	0.0	0.0	0.0	3.6	2.7	0.0									

# Dairy Varieties 2004

ana

STATE DOCUMENTS COLLECTION

JUL 22 2004



MONTANA  
AGRICULTURAL  
STATISTICS SERVICE

10 W 15th St Suite 3100  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-mt@nass.usda.gov](mailto:nass-mt@nass.usda.gov)

Montana State Library



3 0864 1003 0375 2

Released: July 12, 2004 - Corrected

MONTANA STATE LIBRARY  
1515 E. 6th AVE.  
HELENA, MONTANA 59626

Montana farmers seeded 1.0 million acres of barley in 2004, down 9 percent from last year. Fifty-three percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eleventh consecutive year.

## MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the eleventh year in a row. It was seeded on 403.3 thousand acres or 40.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalfe** joins the top four list this year, bumping out Moravian 37. It came in second place this year, with 49.5 thousand acres planted, which accounts for 5.0 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spotinia.

**Merit** moves up to third place this year, with 44.0 thousand acres seeded, or 4.4 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2004 for use in Montana.

**B 1202** drops to fourth place this year, after eight consecutive years at number two. It accounts for 38.9 thousand of the barley acres seeded this year, or 3.9 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

## FORAGE VARIETIES

**Haybet** remains the most popular forage barley for the fifth year in a row, with 99.0 thousand acres seeded, which accounts for 9.9 percent of the total barley acres seeded in Montana for 2004. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-keeled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** is the second most popular forage barley for the second year in a row, with 23.2 thousand acres or 2.3 percent of the state barley acres seeded in 2004. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

## FEED VARIETIES

**Baronesse** is the most popular feed barley again in 2004. It represents 3.9 percent of the total acreage or 38.8 thousand acres for feed barley seeded in Montana for 2004. This is down from the 44.7 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Gallatin** maintains its place as the second most popular feed barley grown for the second year in a row. Statewide, 34.3 thousand acres were seeded, which is 3.4 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2004 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.4	10.9	299.0	57.5	13.5	11.4	51.0	30.0	14.9	42.6	20.8	23.1	1.7	3.8	403.3	40.3
Haybet	2.3	10.5	18.7	3.6	32.2	27.3	10.5	6.2	1.6	4.6	10.9	12.1	22.8	50.7	99.0	9.9
AC Metcalfe	0.0	0.0	42.1	8.1	0.0	0.0	6.8	4.0	0.6	1.7	0.0	0.0	0.0	0.0	49.5	5.0
Merit*	0.0	0.0	38.8	7.4	0.2	0.2	3.1	1.8	1.1	3.1	0.8	0.9	0.0	0.0	44.0	4.4
Baronesse	0.0	0.0	25.7	4.7	2.7	2.3	3.1	1.8	0.0	0.0	7.4	8.2	0.0	0.0	38.9	3.9
B 1202*	4.6	20.9	9.9	1.9	0.7	0.6	16.5	9.7	5.9	16.9	0.9	1.0	0.3	0.7	38.8	3.9
Gallatin	1.8	8.2	7.8	1.5	0.4	0.3	17.2	10.1	2.9	8.3	4.1	4.6	0.1	0.2	34.3	3.4
Moravian 37	0.0	0.0	10.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	23.9	0.5	1.1	32.4	3.2
Legacy*	0.0	0.0	19.9	3.8	7.4	6.3	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.1	28.1	2.8
Hector	0.4	1.8	4.7	0.9	6.8	5.8	7.8	4.6	0.0	0.0	3.1	3.4	1.5	3.3	24.3	2.4
Valier	4.5	20.5	9.9	1.9	3.3	2.8	5.3	3.1	0.1	0.3	0.0	0.0	0.8	1.8	23.9	2.4
Westford	0.6	2.7	3.1	0.6	2.2	1.9	9.7	5.7	3.2	9.1	3.8	4.2	0.6	1.3	23.2	2.3
Lewis	0.0	0.0	1.6	0.3	8.9	7.5	4.8	2.8	0.0	0.0	1.4	1.6	1.8	4.0	18.5	1.9
Bowman	0.0	0.0	4.2	0.8	3.9	3.3	2.0	1.2	0.0	0.0	0.5	0.6	3.1	6.9	13.7	1.4
Horsford	1.0	4.5	0.5	0.1	0.8	0.7	4.3	2.5	0.7	2.0	3.2	3.5	1.6	3.6	12.1	1.2
Robust*	0.0	0.0	0.0	0.0	9.1	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.6	1.0
Piroline	0.0	0.0	3.6	0.7	0.0	0.0	4.8	2.8	0.0	0.0	0.8	0.9	0.0	0.0	9.2	0.9
Stark	0.0	0.0	0.0	0.0	5.9	5.0	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.9
Westbred Xena	0.1	0.5	4.7	0.9	0.0	0.0	3.6	2.1	0.0	0.0	0.1	0.1	0.0	0.0	8.5	0.8
Conlon*	0.0	0.0	0.0	0.0	1.1	0.9	3.1	1.8	0.0	0.0	0.0	0.0	3.6	8.0	7.8	0.8
Other & Unknown	4.3	19.5	17.2	3.3	18.9	16.0	12.5	7.5	4.0	11.4	10.7	11.9	6.1	13.5	71.9	7.2
<b>All Varieties</b>	<b>22.0</b>	<b>100.0</b>	<b>520.0</b>	<b>100.0</b>	<b>118.0</b>	<b>100.0</b>	<b>170.0</b>	<b>100.0</b>	<b>35.0</b>	<b>100.0</b>	<b>90.0</b>	<b>100.0</b>	<b>45.0</b>	<b>100.0</b>	<b>1,000.0</b>	<b>100.0</b>

1/ Columns may not sum to all varieties due to rounding. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Percent of Total Seeded Acreage 1998-2004 & Seeded Acreage 2003-2004 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1998	1999	2000	2001	2002	2003 2/	2004	2003 2/	2004
Harrington*	42.1	49.6	49.9	45.7	47.6	47.1	40.3	518.2	403.3
Haybet	3.0	4.5	6.5	10.2	10.5	9.9	9.9	109.0	99.0
AC Metcalfe	--	--	--	--	--	0.7	5.0	7.4	49.5
Merit*	0.3	1.2	1.6	1.1	2.6	3.8	4.4	41.5	44.0
Baronesse	12.1	7.6	6.2	5.0	3.9	4.1	3.9	44.7	38.9
B 1202*	4.7	5.2	5.4	5.6	5.6	4.9	3.9	53.8	38.8
Gallatin	4.6	4.0	2.2	3.3	1.9	2.9	3.4	31.7	34.3
Moravian 37	--	0.1	1.5	3.8	4.3	3.9	3.2	42.7	32.4
Valier	--	--	0.1	0.6	1.1	0.9	2.8	9.5	28.1
Hector	6.8	4.9	3.7	2.7	3.1	1.8	2.4	20.1	24.3
Westford	--	0.1	1.2	2.7	3.2	2.3	2.4	24.8	23.9
Lewis	2.1	2.3	1.5	1.5	1.6	1.6	2.3	18.0	23.2
Bowman	3.1	2.7	2.8	2.1	3.0	2.1	1.9	23.3	18.5
Legacy*	--	--	--	--	0.6	1.0	1.4	10.6	13.7
Horsford	2.1	1.7	2.4	1.3	1.6	1.7	1.2	19.0	12.1
Robust*	--	--	0.2	0.7	0.4	1.1	1.0	11.9	9.6
Piroline	2.2	1.9	1.1	1.2	1.2	1.3	0.9	14.5	9.2
Stark	0.9	1.9	0.9	0.8	1.1	1.0	0.9	11.5	9.0
Westbred Xena	--	--	--	--	--	0.9	0.8	10.2	8.5
Conlon*	--	--	--	--	--	--	0.8	--	7.8
Other & Unknown	16.0	12.3	12.8	11.7	6.7	6.2	7.2	68.2	71.9
<b>All Varieties</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>1,100.0</b>	<b>1,000.0</b>

1/ Columns may not sum to all varieties due to rounding. 2/ Revised. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/ 2/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	1.3	6.8	363.4	64.2	29.0	22.0	76.6	37.9	29.6	59.2	14.1	16.8	4.2	8.9	518.2	47.1
Haybet	3.1	16.3	22.1	3.9	32.9	24.9	19.4	9.6	3.9	7.8	6.1	7.3	21.5	45.8	109.0	9.9
B 1202*	0.3	1.6	33.4	5.9	0.0	0.0	6.3	3.1	0.0	0.0	13.8	16.4	0.0	0.0	53.8	4.9
Baronesse	2.5	13.2	15.8	2.8	5.8	4.4	13.9	6.9	4.2	8.4	0.8	1.0	1.7	3.6	44.7	4.1
Moravian 37	0.0	0.0	23.8	4.2	1.6	1.2	0.0	0.0	0.0	0.0	16.5	19.6	0.8	1.7	42.7	3.9
Merit*	0.0	0.0	33.4	5.9	0.0	0.0	6.9	3.4	0.4	0.8	0.8	1.0	0.0	0.0	41.5	3.8
Gallatin	3.0	15.8	14.2	2.5	0.0	0.0	9.3	4.6	1.4	2.8	2.8	3.3	1.0	2.1	31.7	2.9
Westford	0.8	4.2	2.3	0.4	2.6	2.0	13.5	6.7	1.6	3.2	3.2	3.8	0.8	1.7	24.8	2.3
Bowman	0.0	0.0	9.6	1.7	3.6	2.7	6.3	3.1	0.0	0.0	0.8	0.9	3.0	6.4	23.3	2.1
Hector	0.0	0.0	2.3	0.4	3.0	2.3	8.5	4.2	0.3	0.6	2.4	2.9	3.6	7.7	20.1	1.8
Horsford	1.0	5.3	2.3	0.4	5.8	4.4	3.6	1.8	1.5	3.0	2.5	3.0	2.3	4.9	19.0	1.7
Lewis	1.3	6.8	4.5	0.8	7.3	5.5	3.4	1.7	0.0	0.0	0.0	0.0	1.5	3.2	18.0	1.6
Piroline	0.0	0.0	1.7	0.3	0.0	0.0	9.3	4.6	0.6	1.2	2.9	3.5	0.0	0.0	14.5	1.3
Robust*	0.0	0.0	0.0	0.0	10.3	7.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	11.9	1.1
Stark	0.0	0.0	2.3	0.4	7.8	5.9	0.6	0.3	0.0	0.0	0.0	0.0	0.8	1.7	11.5	1.0
Legacy*	0.0	0.0	2.3	0.4	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0	1.0	2.1	10.6	1.0
Westbred Xena	0.3	1.6	6.2	1.1	0.0	0.0	2.6	1.3	0.0	0.0	1.1	1.3	0.0	0.0	10.2	0.9
Valier	1.2	6.3	3.4	0.6	2.8	2.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.9	9.5	0.9
Metcalfe	0.0	0.0	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.7
Chinook	0.1	0.5	0.0	0.0	0.7	0.5	4.8	2.4	0.0	0.0	0.0					

# Barley Varieties 2005

Released: July 12, 2005

Montana farmers seeded 950,000 acres of barley in 2005, down from 1.0 million acres in 2004. Fifty percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the twelfth consecutive year.

## MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the twelfth year in a row. It was seeded on 268.7 thousand acres or 28.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalfe** stays in second place this year, with 83.0 thousand acres planted, which accounts for 8.7 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spotinia.

**B 1202** moves into third place this year, after being ranked fourth in 2004. It accounts for 47.7 thousand of the barley acres seeded this year, or 5.0 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

**B Merit** drops to the fourth most popular malting variety, with 43.4 thousand acres seeded, or 4.6 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2005 for use in Montana.



MONTANA  
AGRICULTURAL  
STATISTICS SERVICE  
10 W 15th St Suite 3100  
Helena, MT 59626-0033  
(406) 441-1240 or 1-800-835-2612  
[www.nass.usda.gov/mt/](http://www.nass.usda.gov/mt/)  
[nass-mt@nass.usda.gov](mailto:nass-mt@nass.usda.gov)

3 0864 1003 4239 6

## FORAGE VARIETIES

**Haybet** remains the most popular forage barley for the sixth year in a row, with 163.4 thousand acres seeded, which accounts for 17.2 percent of the total barley acres seeded in Montana for 2005. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** is the second most popular forage barley for the third year in a row, with 20.1 thousand acres or 2.1 percent of the state barley acres seeded in 2005. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

## FEED VARIETIES

**Baronesse** is the most popular feed barley again in 2005. It represents 3.7 percent of the total acreage or 35.3 thousand acres seeded in Montana for 2005. This is down from 39.3 thousand acres seeded last year and 44.7 thousand acres seeded in 2003. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

**Bowman** is the second leading feed variety this year with 24.0 thousand acres or 2.5 percent of the barley acres seeded in 2005. This compares to the 14.4 thousand acres planted in 2004. Released in 1984 by the North Dakota Agriculture Experiment Station, Bowman is a non-malting two-row barley that has a high drought tolerance and high test weight.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

STATE DOCUMENTS COLLECTION

JUL 20 2005

MONTANA STATE LIBRARY  
1515 E. 6th AVE  
HELENA, MONTANA

Peggy Stringer  
Director

Mark Anderson  
Student Intern

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2005

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.6	8.4	193.6	43.5	0.8	0.6	35.7	24.8	21.4	48.6	13.2	12.1	2.4	4.9	268.7	28.3
Haybet	1.7	8.9	20.5	4.6	62.2	44.4	32.5	22.6	7.3	16.6	12.6	11.6	26.6	54.3	163.4	17.2
AC Metcalfe*	0.0	0.0	73.4	16.5	2.0	1.4	6.0	4.2	0.6	1.4	0.9	0.8	0.1	0.2	83.0	8.7
B 1202 *	0.7	3.7	30.3	6.8	0.0	0.0	3.5	2.4	0.0	0.0	13.2	12.1	0.0	0.0	47.7	5.0
B Merit *	0.0	0.0	34.7	7.8	0.1	0.1	6.4	4.4	0.4	0.9	1.8	1.7	0.0	0.0	43.4	4.6
Moravian 37	0.0	0.0	9.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	25.4	23.3	1.3	2.7	36.5	3.9
Baronesse	5.0	26.3	11.1	2.5	1.0	0.7	10.2	7.1	3.8	8.6	2.3	2.1	1.9	3.9	35.3	3.7
Bowman	0.0	0.0	8.9	2.0	5.1	3.7	6.0	4.2	0.0	0.0	2.0	1.8	2.0	4.1	24.0	2.5
Westbred Xena	0.5	2.7	12.9	2.9	0.0	0.0	1.9	1.3	0.0	0.0	8.6	7.9	0.0	0.0	23.9	2.5
Hector	0.0	0.0	8.5	1.9	2.8	2.0	2.9	2.0	0.0	0.0	2.0	1.8	4.2	8.6	20.4	2.1
Westford	1.4	7.4	4.0	0.9	1.7	1.2	4.8	3.3	2.0	4.5	5.6	5.2	0.6	1.2	20.1	2.1
Gallatin	3.1	16.3	7.6	1.7	0.0	0.0	1.7	1.2	1.0	2.3	2.2	2.0	0.6	1.2	16.2	1.7
Tradition *	0.0	0.0	0.0	0.0	15.7	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	1.7
Valier	0.8	4.2	8.5	1.9	4.5	3.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3	1.5
Legacy *	0.0	0.0	0.0	0.0	12.5	8.9	0.0	0.0	0.0	0.0	0.4	0.4	0.7	1.4	13.6	1.4
Conrad	0.1	0.5	10.4	2.3	0.0	0.0	2.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	13.1	1.4
Horsford	0.3	1.6	1.8	0.4	0.8	0.6	4.3	3.0	0.6	1.4	4.4	4.0	0.2	0.4	12.4	1.3
Lewis	0.0	0.0	0.9	0.2	3.3	2.4	4.3	3.0	0.0	0.0	0.0	0.0	0.1	0.2	8.6	0.9
Stark	0.0	0.0	0.0	0.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	7.6	0.8
Piroline	0.0	0.0	1.8	0.4	0.6	0.4	2.6	1.8	1.4	3.2	1.1	1.0	0.0	0.0	7.5	0.8
Hays	0.0	0.0	0.4	0.1	1.7	1.2	0.4	0.3	0.5	1.1	3.2	2.9	1.2	2.5	7.4	0.8
Conlon *	0.0	0.0	0.0	0.0	1.2	0.9	3.3	2.3	0.0	0.0	1.1	1.0	1.0	2.0	6.6	0.7
Haxby	0.5	2.6	1.3	0.3	2.1	1.5	1.1	0.8	0.2	0.5	0.4	0.4	0.6	1.2	6.2	0.7
Other & Unknown	3.3	17.4	4.6	1.1	14.9	10.6	13.3	9.2	4.8	10.9	8.6	7.9	4.9	10.0	54.4	5.7
All Varieties	19.0	100.0	445.0	100.0	140.0	100.0	144.0	100.0	44.0	100.0	109.0	100.0	49.0	100.0	950.0	100.0

\*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2005.

### Barley: Percent of Total Seeded Acreage 1999-2005 & Seeded Acreage 2004-2005

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1999	2000	2001	2002	2003	2004 1/	2005	2004 1/	2005
Harrington *	49.6	49.9	45.7	47.6	47.1	39.8	28.3	398.3	268.7
Haybet	4.5	6.5	10.2	10.5	9.9	10.4	17.2	103.6	163.4
AC Metcalfe *	--	--	--	--	0.7	4.9	8.7	48.7	83.0
B 1202 *	5.2	5.4	5.6	5.6	4.9	3.9	5.0	38.5	47.7
B Merit *	1.2	1.6	1.1	2.6	3.8	4.3	4.6	43.4	43.4
Moravian 37	0.1	1.5	3.8	4.3	3.9	3.0	3.9	30.3	36.5
Baronesse	7.6	6.2	5.0	3.9	4.1	3.9	3.7	39.3	35.3
Bowman	2.7	2.8	2.1	3.0	2.1	1.4	2.5	14.4	24.0
Westbred Xena	--	--	--	--	0.9	0.9	2.5	8.5	23.9
Hector	4.9	3.7	2.7	3.1	1.8	2.5	2.1	24.7	20.4
Westford	0.1	1.2	2.7	3.2	2.3	2.4	2.1	23.7	20.1
Gallatin	4.0	2.2	3.3	1.9	2.9	3.5	1.7	34.6	16.2
Tradition *	--	--	--	--	--	--	1.7	--	15.7
Valier	--	0.1	0.6	1.1	0.9	2.3	1.5	23.4	14.3
Legacy *	--	--	--	0.6	1.0	2.8	1.4	28.0	13.6
Conrad	--	--	--	--	--	--	1.4	--	13.1
Horsford	1.7	2.4	1.3	1.6	1.7	1.2	1.3	12.2	12.4
Lewis	2.3	1.5	1.5	1.6	1.6	1.9	0.9	19.1	8.6
Stark	1.9	0.9	0.8	1.1	1.0	0.9	0.8	9.4	7.6
Piroline	1.9	1.1	1.2	1.2	1.3	0.9	0.8	9.1	7.5
Hays	--	--	--	--	--	--	0.8	--	7.4
Conlon *	--	--	--	--	--	0.9	0.7	7.8	6.6
Haxby	--	--	--	--	--	--	0.7	--	6.2
Other & Unknown	12.3	13.0	12.4	7.1	8.1	8.2	5.7	83.0	54.4
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,000.0	950.0

1/ Revised. \*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2005.

### Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2004 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.0	10.9	291.0	57.5	14.1	11.4	52.8	30.0	17.5	42.6	18.9	23.1	2.0	3.8	398.3	39.8
Haybet	1.9	10.5	18.2	3.6	33.9	27.3	10.9	6.2	1.9	4.6	9.9	12.1	26.9	50.7	103.6	10.4
AC Metcalfe	0.0	0.0	41.0	8.1	0.0	0.0	7.0	4.0	0.7	1.7	0.0	0.0	0.0	0.0	48.7	4.9
B Merit*	0.0	0.0	38.0	7.5	0.2	0.2	3.2	1.8	1.3	3.1	0.7	0.9	0.0	0.0	43.4	4.3
Baronesse	3.8	20.9	9.6	1.9	0.7	0.6	17.1	9.7	6.9	16.9	0.8	1.0	0.4	0.7	39.3	3.9
B 1202*	0.0	0.0	25.7	4.9	2.9	2.3	3.2	1.8	0.0	0.0	6.7	8.2	0.0	0.0	38.5	3.9
Gallatin	1.5	8.2	7.6	1.5	0.4	0.3	17.8	10.1	3.4	8.3	3.8	4.6	0.1	0.2	34.6	3.5
Moravian 37	0.0	0.0	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	23.9	0.6	1.1	30.3	3.0
Legacy*	0.0	0.0	19.2	3.8	7.8	6.3	0.4	0.2	0.0	0.0	0.0	0.0	0.6	1.1	28.0	2.8
Hector	0.3	1.8	4.6	0.9	7.2	5.8	8.1	4.6	0.0	0.0	2.8	3.4	1.7	3.3	24.7	2.5
Westford	0.5	2.7	3.0	0.6	2.4	1.9	10.0	5.7	3.7	9.1	3.4	4.2	0.7	1.3	23.7	2.4
Valier	3.7	20.5	9.6	1.9	3.5	2.8	5.5	3.1	0.1	0.3	0.0	0.0	1.0	1.8	23.4	2.3
Lewis	0.0	0.0	1.5	0.3	9.3	7.5	4.9	2.8	0.0	0.0	1.3	1.6	2.1	4.0	19.1	1.9
Bowman	0.0	0.0	4.0	0.8	4.1	3.3	2.1	1.2	0.0	0.0	0.5	0.6	3.7	6.9	14.4	1.4
Horsford	0.8	4.5	0.5	0.1	0.9	0.7	4.4	2.5	0.8	2.0	2.9	3.5	1.9	3.6	12.2	1.2
Robust*	0.0	0.0	0.0	0.0	9.5	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	10.0	1.0
Stark	0.0	0.0	0.0	0.0	6.2											



# Barley Varieties 2006

Released: July 12, 2006

Montana farmers seeded 800,000 acres of barley in 2006, down from 900,000 acres in 2005. Almost sixty percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the thirteenth consecutive year.

## MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the thirteenth year in a row. It was seeded on 243,900 acres or 30.5 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures one day earlier than AC Metcalf. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalf** stays in second place this year, with 141,700 acres planted, which accounts for 17.7 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spotoria.

**B Merit** moves into third place for malting barley varieties planted. Montana farmers seeded 36,900 acres, or 4.6 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc.

**Tradition** moves into fourth place for malting barley varieties this year. It accounts for 26,600 of the barley acres seeded this year or 3.3 percent of the acreage. Tradition is a six-rowed malt barley developed by Busch Agricultural Resources Inc. and was recommended by the AMBA for use in Montana. It matures one day later than Morex and two days earlier than Robust. A white pearl, long-haired rachilla, and a semi-smooth beard are identifiers for this variety.

## FORAGE VARIETIES

**Haybet** remains the most popular forage barley for the seventh year in a row, with 118,100 acres seeded, which accounts for 14.8 percent of the total barley acres seeded in Montana for 2006. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Westford** is the second most popular forage barley for the fourth year in a row, with 15,500 acres or 1.9 percent of the state barley acres seeded in 2006. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

## FEED VARIETIES

**Bowman** moves into first place as the most popular feed variety, after being ranked second in 2005, with 16,800 acres or 2.1 percent of the barley acres seeded in 2006. Released in 1984 by the North Dakota Agriculture Experiment Station, Bowman is a non-malting two-row barley that has a high drought tolerance and high test weight.

**Valier** moves up to the second most popular feed variety in 2006, representing 1.8 percent of the total acreage or 14,200 acres seeded in Montana. Released in 1999 and developed by Montana State University, Valier is a two-rowed, white aleurone, mid-season maturity barley. The spike has long rough awns equal to the length of the hair-covered glume. Kernels have adhering, finely wrinkled hulls and long rachilla hairs. Valier retains sterile lateral florets.

This Barley Variety Survey was funded by the Montana Wheat and Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

### Barley: 2006 Seeded Acreage and Percent of Total Seeded by Districts

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.3	11.9	189.7	45.7	8.1	8.1	26.3	20.2	11.6	33.0	3.4	6.5	2.5	5.0	243.9	30.5
AC Metcalfe*	0.2	1.3	119.9	28.9	0.0	0.0	15.5	11.9	5.7	16.3	0.3	0.6	0.1	0.2	141.7	17.7
Haybet	4.7	24.7	24.1	5.8	26.5	26.5	27.2	20.9	5.9	16.9	3.2	6.1	26.5	54.1	118.1	14.8
B Merit*	0.1	0.5	27.8	6.7	0.0	0.0	6.8	5.2	0.0	0.0	2.2	4.2	0.0	0.0	36.9	4.6
Tradition*	0.0	0.0	0.0	0.0	24.5	24.5	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	26.6	3.3
Moravian 37	0.0	0.0	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	17.5	33.7	0.5	1.0	21.3	2.7
Conrad	0.0	0.0	11.6	2.8	1.0	1.0	3.4	2.6	0.0	0.0	4.8	9.3	0.0	0.0	20.8	2.6
Bowman	0.0	0.0	5.8	1.4	2.3	2.3	4.6	3.5	0.0	0.0	3.1	6.0	1.0	2.1	16.8	2.1
Westford	0.4	2.2	2.1	0.5	2.0	2.0	4.8	3.7	1.1	3.2	4.2	8.0	0.9	1.9	15.5	1.9
Valier	0.1	0.5	5.0	1.2	3.5	3.5	4.8	3.7	0.0	0.0	0.0	0.0	0.8	1.7	14.2	1.8
Hays	0.5	2.7	2.5	0.6	2.1	2.1	1.7	1.3	3.0	8.6	1.3	2.5	2.9	6.0	14.0	1.7
Conlon*	0.0	0.0	3.3	0.8	2.7	2.7	6.0	4.6	0.0	0.0	0.0	0.0	1.5	3.1	13.3	1.7
Baronesse	2.3	12.0	2.1	0.5	1.8	1.8	3.4	2.6	2.0	5.7	1.7	3.2	0.0	0.0	13.3	1.7
Legacy*	0.0	0.0	0.4	0.1	11.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	12.8	1.6
Haxby	2.2	11.4	1.7	0.4	1.4	1.4	1.4	1.1	1.1	3.2	2.8	5.3	1.5	3.1	12.1	1.5
Hector	0.0	0.0	0.0	0.0	5.7	5.7	5.5	4.2	0.0	0.0	0.1	0.1	0.2	0.4	11.5	1.4
Gallatin	0.4	2.1	0.4	0.1	0.0	0.0	7.3	5.6	1.2	3.4	0.9	1.8	0.1	0.3	10.3	1.3
Westbred Xena	0.0	0.0	2.5	0.6	0.0	0.0	4.9	3.8	0.2	0.7	0.0	0.0	0.0	0.0	7.6	0.9
Stark	0.0	0.0	2.1	0.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.2	7.1	0.9
Lewis	0.0	0.0	0.8	0.2	1.8	1.8	2.6	2.0	0.0	0.0	0.0	0.0	1.2	2.5	6.4	0.8
Horsford	0.6	2.9	1.7	0.4	0.8	0.8	1.0	0.8	0.4	1.1	0.8	1.5	0.7	1.4	6.0	0.7
Prowashonupana	0.0	0.0	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.7
Menuet	1.3	7.1	1.2	0.3	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.4
Other & Unknown	3.9	20.7	1.6	0.4	2.0	2.0	2.3	1.9	2.8	7.9	5.7	11.2	2.9	5.4	21.2	2.7
All Varieties	19.0	100.0	415.0	100.0	100.0	100.0	130.0	100.0	35.0	100.0	52.0	100.0	49.0	100.0	800.0	100.0

\*Denotes variety recommended by the American Malting Barley Association for planting in 2006.

### Barley: Percent of Total Seeded Acreage 2000-2006 & Seeded Acreage 2005-2006

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	2000	2001	2002	2003	2004	2005 1/	2006	2005 1/	2006
Harrington*	49.9	45.7	47.6	47.1	39.8	29.4	30.5	264.4	243.9
AC Metcalfe*	--	--	--	0.7	4.9	9.2	17.7	83.1	141.7
Haybet	6.5	10.2	10.5	9.9	10.4	17.0	14.8	152.7	118.1
B Merit*	1.6	1.1	2.6	3.8	4.3	4.8	4.6	43.2	36.9
Tradition *	--	--	--	--	--	1.5	3.3	13.3	26.6
Moravian 37	1.5	3.8	4.3	3.9	3.0	3.2	2.7	28.9	21.3
Conrad	--	--	--	--	--	1.4	2.6	13.0	20.8
Bowman	2.8	2.1	3.0	2.1	1.4	2.6	2.1	23.2	16.8
Westford	1.2	2.7	3.2	2.3	2.4	2.0	1.9	18.0	15.5
Valier	0.1	0.6	1.1	0.9	2.3	1.5	1.8	13.5	14.2
Hays	--	--	--	--	--	0.7	1.7	6.2	14.0
Conlon*	--	--	--	--	0.9	0.7	1.7	6.4	13.5
Baronesse	6.2	5.0	3.9	4.1	3.9	3.8	1.7	33.9	13.3
Legacy*	--	--	0.6	1.0	2.8	1.3	1.6	11.6	12.8
Haxby	--	--	--	--	--	0.6	1.5	5.8	12.1
Hector	3.7	2.7	3.1	1.8	2.5	2.2	1.4	19.8	11.5
Gallatin	2.2	3.3	1.9	2.9	3.5	1.7	1.3	15.0	10.3
Westbred Xena	--	--	--	0.9	0.9	2.4	0.9	21.3	7.6
Stark	0.9	0.8	1.1	1.0	0.9	0.7	0.9	6.6	7.1
Lewis	1.5	1.5	1.6	1.6	1.9	0.9	0.8	8.5	6.4
Horsford	2.4	1.3	1.6	1.7	1.2	1.2	0.7	11.2	6.0
Prowashonupana	--	--	--	--	--	--	0.7	--	5.4
Menuet	--	--	--	--	--	--	0.4	--	3.0
Piroline	1.1	1.2	1.2	1.3	0.9	0.8	--	7.1	--
B 1202*	5.4	5.6	5.6	4.9	3.9	4.9	--	43.8	--
Other & Unknown	13.0	12.4	7.1	8.1	8.2	5.5	2.7	49.5	21.2
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	900.0	800.0

1/ Revised \*Denotes variety recommended by the American Malting Barley Association for planting in 2005.

### Barley: 2005 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total		
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	
Harrington*	1.3	8.4	193.6	43.5	0.7	0.6	37.7	24.8	19.4	48.6	9.2	12.1	2.5	4.9	264.4	29.4	
Haybet	1.4	8.9	20.5	4.6	52.8	44.4	34.4	22.6	6.6	16.6	8.8	11.6	28.2	54.3	152.7	17.0	
AC Metcalfe*	0.0	0.0	73.4	16.5	1.7	1.4	6.4	4.2	0.6	1.4	0.9	1.2	0.1	0.2	83.1	9.2	
B 1202*	0.7	4.4	30.3	6.8	0.0	0.0	3.6	2.4	0.0	0.0	9.2	12.1	0.0	0.0	43.8	4.9	
B Merit*	0.0	0.0	34.7	7.8	0.1	0.1	6.7	4.4	0.4	0.9	1.3	1.7	0.0	0.0	43.2	4.8	
Baronesse	4.2	26.3	11.1	2.5	0.8	0.7	10.8	7.1	3.4	8.6	1.6	2.1	2.0	3.9	33.9	3.8	
Moravian 37	0.0	0.0	9.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	17.7	23.3	1.4	2.7	28.9	3.2	
Bowman	0.0	0.0	8.9	2.0	4.4	3.7	6.4	4.2	0.0	0.0	1.4	1.8	2.1	4.1	23.2	2.6	
Westbred Xena	0.4	2.7	12.9	2.9	0.0	0.0	2.0	1.3	0.0	0.0	6.0	7.9	0.0	0.0	21.3	2.4	
Hector	0.0	0.0	8.5	1.9	2.4	2.0	3.0	2.0	0.0	0.0	1.4	1.8	4.5	8.6	19.8	2.2	
Westford	1.2	7.4	4.0	0.9	1.4	1.2	5.0	3.3	1.8	4.5	4.0	5.2	0.6	1.2	18.0	2.0	
Gallatin	2.6	16.3	7.6	1.7	0.0	0.0	1.8	1.2	0.9	2.3	1.5	2.0	0.6	1.2	15.0	1.7	
Valier	0.7	4.2	8.5	1.9	3.8	3.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	13.5	1.5	
Tradition*	0.0	0.0	0.0	0.0	13.3	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	1.5
Conrad	0.1	0.5	10.2	2.3	0.0	0.0	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	1.4
Legacy*	0.0	0.0	0														

S  
338.14  
A7BV  
2007  
1

Montana State Library

3 0864 1004 0866 8

United States Department of Agriculture  
National Agricultural Statistics Service



# Montana Barley Varieties 2007

Cooperating with the Montana Department of Agriculture  
10 W 15<sup>th</sup> Street, Suite 3100 · Helena, MT 59626

STATE PUBLICATIONS COLLECTION

Released: July 12, 2007

JUL 18 2007

MONTANA STATE LIBRARY  
1515 E. 6th AVE.  
HELENA, MONTANA 59620

Montana farmers seeded 900,000 acres of barley in 2007, up from 770,000 acres in 2006. Nearly fifty-seven percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association, Inc., (AMBA) for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the fourteenth consecutive year.

## MALTING VARIETIES

**Harrington** remains the top variety planted in the state for the fourteenth year in a row. It was seeded on 201,900 acres or 22.4 percent of Montana's barley acreage. Harrington has been recommended by the AMBA since 1989. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures one day earlier than AC Metcalfe. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**AC Metcalfe** is in second place again this year, with 175,100 acres planted, accounting for 19.5 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. This variety is recommended by the AMBA. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spetoria.

**B Merit** is the third most common malting barley variety planted in the state this year. Montana farmers seeded 56,000 acres of B Merit or 6.2 percent of this year's total barley acreage. B Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present, and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc. B Merit was recommended by the AMBA in 2007.

**Moravian 37** is ranked the fourth leading malting barley variety seeded for the 2007 crop year. A total of 27,500 acres or 3.1 percent of all barley is planted to the variety. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has a slightly higher yield and test weight than Galena. Height and straw strength are similar, but heading date is earlier than Galena. It is a rough-awned variety and is standard in height. It is resistant to lodging and is very plump with a high level of stress tolerance and excellent yields. Glume hair is long and the aleurone is white.

## FORAGE VARIETIES

**Haybet** remains the top forage barley variety seeded for the eighth year in a row, with 108,200 acres seeded or 12.0 percent of the total barley acres seeded in Montana for 2007. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture, and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kernelled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Hays** is the second most common forage barley variety seeded this year with 22,500 acres or 2.5 percent of the state barley acres. Hays moved from twelfth position in 2006 to eighth position in 2007 for all barley planted. It is a two-rowed hooded hay barley developed by Montana State University, and it is a cross between Haybet and Baronesse varieties. Forage yields are similar to Haybet and higher than Westford. Hays is approximately three inches shorter and two days later in heading than Haybet. The two varieties have similar test weights.

## FEED VARIETIES

**Haxby** is the top variety planted for feed purposes in 2007. It was seeded on 35,300 acres this year and represents 3.9 percent of the state total. It moved up in 2007 to fifth place from fifteenth place in 2006 for all varieties seeded in Montana. Haxby is a two-rowed barley developed by Montana State University. Yields are equal to Baronesse and Eslick and higher than Gallatin and Valier. This variety is medium in height and medium in maturity. It has superior performance in low moisture conditions, and it has very high test weights in both dryland and irrigated areas.

**Baronesse** is the second most popular feed barley variety seeded this year. It was seeded on 25,000 acres or 2.8 percent of the state's barley acreage. Developed in Germany and distributed by the Western Plant Breeders in the U.S., it is a two-rowed, rough-awned spring barley. This variety is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is easily adaptable to dryland conditions. It is highly resistant to lodging and moderately resistant to net blotch.

This Barley Variety Survey was funded by the Montana Wheat and Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

### Barley: 2007 Seeded Acreage and Percent of Total Seeded by Districts

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	0.5	2.7	161.5	36.3	4.8	3.7	15.5	10.7	12.2	26.5	6.0	8.6	1.4	3.0	201.9	22.4
AC Metcalfe*	0.5	2.5	133.9	30.1	2.7	2.1	31.8	21.9	5.2	11.2	1.0	1.4	0.0	0.0	175.1	19.5
Haybet	3.7	18.4	13.4	3.0	41.8	32.4	13.2	9.1	3.5	7.5	5.3	7.6	27.3	60.6	108.2	12.0
B Merit*	0.0	0.0	45.4	10.2	0.0	0.0	8.4	5.8	0.0	0.0	2.2	3.2	0.0	0.0	56.0	6.2
Haxby	2.8	13.9	9.3	2.1	7.7	6.0	7.4	5.1	0.8	1.7	5.6	8.0	1.7	3.8	35.3	3.9
Moravian 37	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.5	35.0	1.7	3.7	27.5	3.1
Baronesse	2.0	10.2	7.6	1.7	0.0	0.0	7.1	4.9	7.0	15.2	1.3	1.9	0.0	0.0	25.0	2.8
Hays	0.9	4.6	2.7	0.6	7.9	6.1	2.0	1.4	2.5	5.4	5.1	7.3	1.4	3.1	22.5	2.5
Conlon *	0.0	0.0	20.0	4.5	0.0	0.0	1.2	0.8	0.0	0.0	0.0	0.0	1.1	2.4	22.3	2.5
Bowman	0.0	0.0	6.2	1.4	3.2	2.5	4.6	3.2	0.0	0.0	2.4	3.4	0.8	1.7	17.2	1.9
Conrad *	0.0	0.0	10.2	2.3	0.0	0.0	0.4	0.3	0.4	0.8	6.0	8.6	0.0	0.0	17.0	1.9
Tradition *	0.0	0.0	0.0	0.0	15.7	12.2	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0	16.2	1.7
Westford	3.1	15.6	0.4	0.1	0.6	0.5	3.0	2.1	5.6	12.1	0.7	1.0	2.2	4.9	15.6	1.7
Gallatin	0.2	1.0	0.9	0.2	0.0	0.0	10.6	7.3	1.5	3.2	1.3	1.8	0.1	0.2	14.6	1.6
Valier	0.4	1.9	1.8	0.4	2.5	1.9	5.2	3.6	0.0	0.0	0.0	0.0	1.4	3.1	11.3	1.3
Legacy *	0.0	0.0	0.0	0.0	9.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	9.7	1.1
CDC Copeland *	0.0	0.0	4.5	1.0	4.3	3.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4	1.0
Horsford	0.0	0.0	0.4	0.1	0.1	0.1	7.8	5.4	0.0	0.0	0.4	0.5	0.3	0.7	9.0	1.0
Lewis	0.0	0.0	1.8	0.4	4.1	3.2	2.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	1.0
Westbred Xena	0.5	2.3	1.3	0.3	2.8	2.2	3.5	2.4	0.0	0.0	0.7	1.0	0.0	0.0	8.8	1.0
Hector	0.0	0.0	1.3	0.3	1.9	1.5	2.5	1.7	0.0	0.0	0.2	0.3	1.2	2.7	7.1	0.8
Pioline	0.0	0.0	0.9	0.2	0.0	0.0	3.5	2.4	0.0	0.0	2.6	3.7	0.0	0.0	7.0	0.8
Stellar *	0.0	0.0	0.0	0.0	5.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.6
Other & Unknown	5.4	26.9	20.2	4.5	14.4	11.1	13.8	9.5	6.8	15.4	4.7	6.7	3.9	9.0	69.2	7.7
All Varieties	20.0	100.0	445.0	100.0	129.0	100.0	145.0	100.0	46.0	100.0	70.0	100.0	45.0	100.0	900.0	100.0

\*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2007.

### Barley: Percent of Total Seeded Acreage 2001-2007 & Seeded Acreage 2006-2007

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	2001	2002	2003	2004	2005	2006 1/	2007	2006 1/	2007
Harrington *	45.7	47.6	47.1	39.8	29.4	28.7	22.4	221.2	201.9
Metcalfe*	--	--	0.7	4.9	9.2	17.6	19.5	135.5	175.1
Haybet	10.2	10.5	9.9	10.4	17.0	14.9	12.0	114.5	108.2
B Merit *	1.1	2.6	3.8	4.3	4.8	4.4	6.2	33.7	56.0
Haxby	--	--	--	--	0.6	1.6	3.9	12.1	35.3
Moravian 37	3.8	4.3	3.9	3.0	3.2	2.9	3.1	22.0	27.5
Baronesse	5.0	3.9	4.1	3.9	3.8	1.7	2.8	12.9	25.0
Hays	--	--	--	--	0.7	1.7	2.5	13.1	22.5
Conlon *	--	--	--	0.9	0.7	1.7	2.5	13.1	22.3
Bowman	2.1	3.0	2.1	1.4	2.6	2.2	1.9	17.2	17.2
Conrad *	--	--	--	--	1.4	2.9	1.9	22.2	17.0
Tradition*	--	--	--	--	1.5	3.4	1.7	25.9	16.2
Westford	2.7	3.2	2.3	2.4	2.0	1.9	1.7	14.8	15.6
Gallatin	3.3	1.9	2.9	3.5	1.7	1.1	1.6	8.5	14.6
Valier	0.6	1.1	0.9	2.3	1.5	1.9	1.3	14.8	11.3
Legacy *	--	0.6	1.0	2.8	1.3	1.6	1.1	12.6	9.7
CDC Copeland *	--	--	--	--	--	--	1.0	--	9.4
Horsford	1.3	1.6	1.7	1.2	1.2	0.8	1.0	6.1	9.0
Westbred Xena	--	--	0.9	0.9	2.4	0.8	1.0	6.1	8.8
Lewis	1.5	1.6	1.6	1.9	0.9	0.8	1.0	5.9	8.8
Hector	2.7	3.1	1.8	2.5	2.2	1.4	0.8	11.2	7.1
Pioline	1.2	1.2	1.3	0.9	0.8	--	0.8	--	7.0
Stellar *	--	--	--	--	--	--	0.6	--	5.3
Menet	0.4	0.7	--	--	--	0.4	--	3.5	--
Stark	0.8	1.1	1.0	0.9	0.7	0.8	--	6.5	--
Prowashonupana	--	--	--	--	--	0.7	--	5.2	--
Other & Unknown	17.6	12.0	13.0	12.1	10.4	4.1	7.7	31.4	69.2
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	770.0	900.0

1/ Revised \*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2007. --Data not published for the given year.

### Barley: 2006 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	0.7	4.1	179.3	45.1	4.4	4.1	20.7	18.2	10.8	31.8	3.2	5.4	2.1	4.9	221.2	28.7
AC Metcalfe*	0.2	1.2	116.1	29.2	0.0	0.0	13.2	11.6	5.5	16.3	0.4	0.6	0.1	0.2	135.5	17.6
Haybet	3.9	24.2	22.3	5.6	33.7	31.5	22.4	19.7	5.7	16.9	3.6	6.0	22.9	54.6	114.5	14.9
B Merit*	0.1	0.6	24.2	6.1	0.0	0.0	6.8	6.0	0.0	0.0	2.6	4.4	0.0	0.0	33.7	4.4
Tradition*	0.0	0.0	0.0	0.0	24.5	22.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4	25.9	3.4
Conrad	0.0	0.0	11.9	3.0	1.2	1.1	3.4	3.0	0.0	0.0	5.7	9.5	0.0	0.0	22.2	2.9
Moravian 37	0.0	0.0	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	18.4	30.7	0.4	1.0	22.0	2.9
Bowman	0.0	0.0	5.6	1.4	2.4	2.2	5.3	4.7	0.0	0.0	2.9	4.9	1.0	2.4	17.2	2.2
Westford	0.3	1.9	2.0	0.5	2.1	2.0	4.1	3.6	1.2	3.5	4.3	7.2	0.8	1.9	14.8	1.9
Valier	0.1	0.5	4.8	1.2	3.4	3.2	5.7	5.0	0.0	0.0	0.0	0.0	0.8	1.9	14.8	1.9
Conlon*	0.0	0.0	3.6	0.9	2.7	2.5	5.3	4.7	0.0	0.0	0.0	0.0	1.5	3.5	13.1	1.7
Hays	0.4	2.4	2.0	0.5	2.2	2.1	1.5	1.3	3.0	8.7	1.4	2.4	2.6	6.2	13.1	1.7
Baronesse	2.2	13.6	1.6	0.4	1.7	1.6	3.6	3.2	2.1	6.3	1.7	2.9	0.0	0.0	12.9	1.7
Legacy*	0.0	0.0	0.4	0.1	11.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	12.6	1.6
Haxby	2.2	14.0	1.6	0.4	1.5	1.4	1.4	1.2	1.1	3.1	3.0	5.				